Graduate Students and Postdoctorates in Science and Engineering: Fall 2010

Detailed Statistical Tables | NSF 13-314 | April 2013

Kelly Kang,
Project Officer
Human Resources Statistics Program
(703) 292-7796

General Notes

Data presented here are derived from the annual National Science Foundation–National Institutes of Health Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). Unless otherwise specified, data published here represent estimates of total graduate enrollment as of fall 2010 in science, engineering, and selected health fields in 13,711 graduate units (departments, research centers, degree-granting programs, and affiliate health facilities) at 574 academic institutions in the United States and outlying areas.

The survey was refined in 2007 to improve reporting: new fields were added, and some fields were reclassified. Because of these changes, the 2007 data are presented two ways in multiyear tables:

- "2007new" shows the data as they were collected using the new methodology.
- "2007old" shows the data as they would have been collected in prior years.

The 2010, 2009, and 2008 data are comparable with "2007new" data.

Beginning in 2008, the tables that provide data by institutions no longer list names of the nonresponding institutions, although their data are imputed and included in the totals for all institutions.

In 2010, two notable changes were introduced in the survey as part of the additional emphasis placed on postdoctoral appointees (postdocs) and other doctorate-holding nonfaculty researchers (NFRs). First, the GSS added several new items and expanded existing items for enumerating postdocs and NFRs. Second, the schools were requested to designate a postdoc coordinator (PC) to assist in reporting data about postdocs and NFRs separate from the school coordinator (SC) who was responsible for reporting data on graduate students.

Collection of these graduate enrollment and postdoc data began in 1966, and the survey has been modified periodically since then. Appendix A, "Technical Notes," provides more detailed information on the survey over the years. The latest data for prior years are published in this report; only these data should be used in historical analyses.

Data from the GSS fall 1972 through fall 2010 are also available in public-use files and from the WebCASPAR system at https://webcaspar.nsf.gov/.

Data Tables

Table **Graduate enrollment in all institutions**

Graduates students in science, engineering, and health

by field: 1975–2010

1 science, engineering, and health

2 science

3 engineering

4 female, in science, engineering, and health fields: 1977–2010

Full-time graduate students, by field

5 total: 1975–2010

6 female: 1977–2010

7 U.S. citizens and permanent residents: 1980–2010

8 with temporary visas: 1980–2010

Graduate students in all institutions: 2004–10

by detailed science, engineering, and health field

9 total

10 female

11 full-time

12 first-time, full-time

by citizenship, ethnicity, and race of U.S. citizens and permanent residents

13 total

14 female

15 full-time

Graduate students in doctorate-granting institutions: 2004–10

by detailed science, engineering, and health field

16 total

17 at public institutions

full- and part-time enrolled

18 by citizenship, ethnicity, and race of U.S. citizens and permanent residents

full-time enrolled

19 by field and primary source of support

20 by field and primary mechanism of support

Graduate students in all institutions: 2010

by citizenship, ethnicity, and race of U.S. citizens and permanent residents

21 by detailed field

22 female, by detailed field

23 in science, by region, state, and institution

24 in engineering, by region, state, and institution

Institutional rankings: 2004–10

25 by 2010 graduate student total in science, engineering, and health

Black or African American full-time graduate students

26 in all institutions and in HBCUs, by field and sex of U.S. citizens and permanent residents: 2006–10

Postdoctoral appointees, by field: 1979–2010

27 science, engineering, and health

28 science

29 engineering

30 female, in science, engineering, and health: 1979–2010

31 with temporary visas, in science, engineering, and health: 1980–2010

Postdoctoral appointees in science, engineering, and health: 2004–10

by field

32 total

33 female

34 by citizenship, ethnicity, and race of U.S. citizens and permanent residents

35 in public institutions

36 in private institutions

37 by primary source of support

Postdoctoral appointees in science, engineering, and health: 2010

by field

38 by sex and citizenship

39 by primary source of support

40 by primary mechanism of support

41 by primary source of support, and primary mechanism of support

42 by citizenship, ethnicity, and race of U.S. citizens and permanent residents

43 female, by citizenship, ethnicity, and race of U.S. citizens and permanent residents

by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents

44 in science

45 in engineering

Institutional rankings: 2010

46 by 2010 postdoctoral appointee total, by field

Postdoctoral appointees' doctoral degree characterstics: 2010

47 degree type, by detailed field and citizenship

48 origin of doctoral degree, by detailed field

49 degree type, by primary mechanism of support and field

50 origin of doctoral degree and citizenship, ethnicity, and race of U.S. citizens and permanent residents, by field

TABLE 1. Graduate students in science, engineering, and health in all institutions, by field: 1975–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine	Other health[a]
1975	328,510	302,981	234,649	68,332	25,529	5,590	19,939
1976	333,716	305,398	238,675	66,723	28,318	6,055	22,263
1977	345,374	311,689	242,932	68,757	33,685	6,240	27,445
1978[b]	339,912	304,252	236,465	67,787	35,660	7,194	28,466
1979	357,578	319,043	247,235	71,808	38,535	8,054	30,481
1980	367,078	325,600	251,265	74,335	41,478	8,751	32,727
1981	375,130	331,989	252,404	79,585	43,141	8,771	34,370
1982	382,291	338,866	255,146	83,720	43,425	8,561	34,864
1983	390,432	346,966	255,820	91,146	43,466	8,481	34,985
1984	394,670	349,642	256,903	92,739	45,028	8,630	36,398
1985	404,021	357,991	261,973	96,018	46,030	9,198	36,832
1986	415,520	367,982	266,077	101,905	47,538	9,227	38,311
1987	421,497	373,239	269,256	103,983	48,258	9,773	38,485
1988	424,523	375,163	272,309	102,854	49,360	10,071	39,289
1989	434,478	382,642	278,577	104,065	51,836	10,200	41,636
1990	452,113	397,041	289,383	107,658	55,072	10,943	44,129
1991	471,212	412,592	299,057	113,535	58,620	11,696	46,924
1992	493,522	430,517	312,478	118,039	63,005	12,597	50,408
1993	504,304	435,723	318,851	116,872	68,581	14,213	54,368
1994	504,399	431,142	318,118	113,024	73,257	15,037	58,220
1995	499,640	422,466	315,265	107,201	77,174	15,538	61,636
1996	494,079	415,181	311,957	103,224	78,898	15,363	63,535
1997	487,208	407,630	306,482	101,148	79,578	15,470	64,108
1998	485,627	404,856	304,818	100,038	80,771	16,643	64,128
1999	493,256	411,182	309,491	101,691	82,074	17,276	64,798
2000	493,311	413,536	309,424	104,112	79,775	16,407	63,368
2001	509,607	429,229	319,736	109,493	80,378	17,363	63,015
2002	540,404	454,834	335,166	119,668	85,570	19,166	66,404
2003	567,121	474,645	347,268	127,377	92,476	20,574	71,902
2004	574,463	475,873	352,307	123,566	98,590	20,866	77,724
2005	582,226	478,275	357,710	120,565	103,951	21,414	82,537
2006	597,643	486,287	363,246	123,041	111,356	23,441	87,915
2007old[c]	607,823	502,375	372,120	130,255	105,448	24,616	80,832
2007new[c]	619,499	516,199	384,523	131,676	103,300	22,751	80,549
2008	631,489	529,275	391,419	137,856	102,214	23,939	78,275
2009	631,645	545,685	401,008	144,677	85,960	24,125	61,835
2010	632,652	556,532	407,291	149,241	76,120	25,699	50,421

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[c] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 2. Graduate students in science in all institutions, by science field: 1975–2010

Year	Total	Agricultural sciences	Biological sciences	Communication[a]	Computer sciences	Earth, atmospheric, and ocean sciences	Family and consumer sciences/ human sciences[a]	Mathematical sciences	Multidisciplinary/ interdisciplinary studies[a]	Neuroscience[a]	Physical sciences	Psychology[b]	Social sciences
1975	234,649	10,804	46,185	ne	8,415	12,079	ne	16,892	ne	na	26,310	36,191	77,773
1976	238,675	11,427	47,453	ne	8,627	12,809	ne	17,071	ne	na	26,641	37,458	77,189
1977	242,932	11,812	48,975	ne	9,108	13,446	ne	16,052	ne	na	26,864	38,617	78,058
1978[c]	236,465	11,981	47,665	ne	9,847	13,268	ne	14,812	ne	na	26,282	37,522	75,088
1979	247,235	12,365	47,932	ne	11,690	13,731	ne	15,031	ne	na	26,701	39,766	80,019
1980	251,265	12,689	47,261	ne	13,578	14,051	ne	15,311	ne	na	26,934	40,610	80,831
1981	252,404	12,585	46,302	ne	16,437	14,263	ne	15,881	ne	na	27,360	40,666	78,910
1982	255,146	12,826	45,627	ne	19,812	15,018	ne	17,157	ne	na	28,188	40,073	76,445
1983	255,820	12,728	45,253	ne	23,333	15,443	ne	17,358	ne	na	29,463	40,905	71,337
1984	256,903	12,528	45,353	ne	25,526	15,500	ne	17,443	ne	na	30,061	40,931	69,561
1985	261,973	11,846	45,709	ne	29,769	15,414	ne	17,563	ne	na	30,987	40,721	69,964
1986	266,077	11,771	46,302	ne	31,349	15,053	ne	17,949	ne	na	32,259	41,241	70,153
1987	269,256	11,405	46,317	ne	32,051	14,357	ne	18,508	ne	na	32,741	42,612	71,265
1988	272,309	11,438	47,126	ne	32,227	13,854	ne	19,077	ne	na	32,975	43,963	71,649
1989	278,577	11,461	48,449	ne	32,482	13,630	ne	19,247	ne	na	33,629	45,528	74,151
1990	289,383	11,563	49,602	ne	34,257	13,977	ne	19,774	ne	na	34,082	48,167	77,961
1991	299,057	11,766	51,365	ne	34,681	14,466	ne	19,952	ne	na	34,724	51,343	80,760
1992	312,478	12,153	53,693	ne	36,325	15,324	ne	20,355	ne	na	35,357	53,484	85,787
1993	318,851	12,305	55,950	ne	36,213	15,721	ne	20,000	ne	na	35,328	54,557	88,777
1994	318,118	12,611	57,676	ne	34,158	15,957	ne	19,573	ne	na	34,466	54,554	89,123
1995	315,265	12,768	58,344	ne	33,458	15,716	ne	18,504	ne	na	33,399	53,641	89,435
1996	311,957	12,301	57,749	ne	34,626	15,183	ne	18,008	ne	na	32,333	53,122	88,635
1997	306,482	12,203	56,705	ne	35,991	14,548	ne	16,719	ne	na	31,105	53,126	86,085
1998	304,818	12,168	56,695	ne	38,027	14,258	ne	16,485	ne	na	30,575	52,557	84,053
1999	309,491	12,312	56,959	ne	42,478	14,083	ne	16,257	ne	na	30,691	51,727	84,984
2000	309,424	12,023	56,282	ne	47,350	13,941	ne	15,650	ne	na	30,385	50,466	83,327
2001	319,736	12,235	57,639	ne	52,196	13,841	ne	16,651	ne	na	31,038	50,454	85,682
2002	335,166	12,698	61,088	ne	55,269	14,240	ne	18,163	ne	na	32,341	51,152	90,215
2003	347,268	13,197	64,701	ne	53,696	14,620	ne	19,465	ne	na	34,298	52,162	95,129
2004	352,307	13,445	66,565	ne	50,016	15,131	ne	19,931	ne	na	35,761	54,126	97,332
2005	357,710	13,123	68,479	ne	47,978	14,836	ne	20,210	ne	na	36,375	57,282	99,427
2006	363,246	13,016	69,941	ne	47,653	14,920	ne	20,815	ne	na	36,901	57,653	102,347
2007old[a]	372,120	13,222	71,663	ne	48,959	14,675	ne	21,335	ne	na	37,111	60,284	104,871
2007new[a]	384,523	13,528	71,932	7,303	48,246	14,100	2,780	20,975	4,484	1,584	36,824	59,617	103,150

TABLE 2. Graduate students in science in all institutions, by science field: 1975–2010

Year	Total	Agricultural sciences	Biological sciences	Communication[a]	Computer sciences	Earth, atmospheric, and ocean sciences	Family and consumer sciences/ human sciences[a]	Mathematical sciences	Multidisciplinary/ interdisciplinary studies[a]	Neuroscience[a]	Physical sciences	Psychology[b]	Social sciences
2008	391,419	14,153	72,666	8,444	49,553	14,389	3,549	21,400	5,559	2,012	37,319	58,991	103,384
2009	401,008	15,200	73,304	9,418	51,161	14,839	3,794	22,226	6,557	2,356	38,149	56,184	107,820
2010	407,291	15,656	74,928	9,825	51,546	15,655	4,191	23,136	7,944	2,798	38,973	53,419	109,220

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[c] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 3. Graduate students in engineering in all institutions, by engineering field: 1975–2010

Year	Total	Aerospace engineering	Agricultural engineering	Architecture[a]	Biomedical engineering	Chemical engineering	Civil engineering[a]	Electrical engineering	Engineering science	Industrial engineering	Mechanical engineering	Metal-lurgical/ materials engineering	Mining engineer-ing	Nuclear engineering	Petroleum engineering	Engineer-ing, nec
1975	68,332	1,670	631	na	883	5,095	12,560	16,320	1,746	11,663	8,601	2,376	412	1,636	302	4,437
1976	66,723	1,477	690	na	895	5,271	11,995	15,926	1,759	10,687	8,313	2,398	515	1,600	376	4,821
1977	68,757	1,518	754	na	855	5,273	12,335	17,406	1,737	10,438	8,722	2,585	452	1,491	379	4,812
1978[b]	67,787	1,463	788	na	920	5,431	12,358	17,127	1,844	9,494	8,638	2,592	416	1,404	428	4,884
1979	71,808	1,481	787	na	1,004	5,685	12,822	17,715	1,681	10,729	9,251	2,778	389	1,318	424	5,744
1980	74,335	1,737	789	na	964	6,038	13,097	19,132	1,796	9,698	9,888	2,934	413	1,241	503	6,105
1981	79,585	1,883	842	na	1,017	6,526	14,089	20,113	1,965	9,737	10,618	3,152	462	1,283	521	7,377
1982	83,720	1,941	911	na	1,085	7,222	14,122	21,927	2,130	9,577	11,467	3,154	449	1,301	586	7,848
1983	91,146	2,305	1,001	na	1,220	7,590	14,910	25,295	2,261	9,247	12,911	3,477	524	1,203	737	8,465
1984	92,739	2,340	989	na	1,315	7,400	15,192	26,388	2,153	9,282	13,855	3,673	502	1,234	744	7,672
1985	96,018	2,538	983	na	1,335	7,177	14,902	28,203	2,098	10,525	14,157	3,959	489	1,220	782	7,650
1986	101,905	2,804	1,118	na	1,487	7,043	14,976	29,969	2,362	11,569	15,713	4,236	512	1,265	747	8,104
1987	103,983	3,015	1,126	na	1,628	7,141	14,682	31,399	2,343	12,353	16,366	4,397	513	1,279	818	6,923
1988	102,854	3,223	1,096	na	1,708	6,643	14,811	32,035	2,386	11,575	16,151	4,381	489	1,303	742	6,311
1989	104,065	3,524	1,092	na	1,867	6,482	14,909	33,257	2,077	11,333	16,265	4,635	418	1,323	665	6,218
1990	107,658	3,934	985	na	2,097	6,768	15,542	33,722	2,020	11,555	16,879	4,983	437	1,278	670	6,788
1991	113,535	4,120	1,023	na	2,199	7,157	17,398	35,111	2,154	12,996	17,730	5,203	489	1,282	705	5,968
1992	118,039	4,036	1,053	na	2,492	7,433	19,572	36,428	2,218	13,826	18,637	5,550	437	1,286	737	4,334
1993	116,872	3,940	1,053	na	2,640	7,554	19,583	35,290	2,180	13,905	18,477	5,410	427	1,306	725	4,382
1994	113,024	3,715	1,095	na	2,716	7,639	19,925	33,067	2,089	13,992	17,761	5,228	424	1,246	624	3,503
1995	107,201	3,343	1,076	na	2,693	7,452	19,218	30,861	1,955	13,475	16,363	4,956	373	1,154	610	3,672
1996	103,224	3,208	1,055	na	2,689	7,408	18,528	29,941	1,751	12,675	15,509	4,747	371	980	562	3,800
1997	101,148	3,083	991	na	2,797	7,288	17,193	30,787	1,647	11,957	15,045	4,688	348	868	561	3,895
1998	100,038	3,137	975	na	2,855	7,093	16,517	31,384	1,701	11,221	14,696	4,680	304	821	571	4,083
1999	101,691	3,349	986	na	3,069	6,883	16,226	31,822	1,627	11,803	14,956	4,481	328	830	642	4,689
2000	104,112	3,407	943	na	3,197	7,056	16,451	33,611	1,632	12,119	15,235	4,377	287	792	627	4,378
2001	109,493	3,451	947	na	3,599	6,913	16,665	36,100	1,798	12,940	15,852	4,721	240	801	656	4,810
2002	119,668	3,685	952	na	4,338	7,414	17,713	39,948	2,121	14,033	17,139	4,992	267	795	766	5,505
2003	127,377	4,048	1,058	na	5,301	7,516	18,890	41,763	2,240	14,313	18,393	5,131	278	885	849	6,712
2004	123,566	4,089	1,041	na	5,807	7,452	18,561	38,995	2,198	13,852	17,852	5,059	308	971	845	6,536
2005	120,565	4,170	1,059	na	6,067	7,173	18,114	37,450	1,951	13,650	17,373	5,160	279	1,013	808	6,298
2006	123,041	4,482	1,073	na	6,482	7,261	17,802	38,265	2,046	13,829	17,919	5,268	244	1,099	813	6,458
2007old[a]	130,255	4,616	1,126	na	6,881	7,383	19,867	40,207	1,843	14,290	18,366	5,365	307	1,208	1,014	7,782
2007new[a]	131,676	4,616	1,126	4,601	6,904	7,584	16,071	40,588	1,806	14,474	18,347	5,314	222	1,180	1,014	7,829

TABLE 3. Graduate students in engineering in all institutions, by engineering field: 1975–2010

Year	Total	Aerospace engineering	Agricultural engineering	Architecture[a]	Biomedical engineering	Chemical engineering	Civil engineering[a]	Electrical engineering	Engineering science	Industrial engineering	Mechanical engineering	Metal-lurgical/ materials engineering	Mining engineer-ing	Nuclear engineering	Petroleum engineering	Engineer-ing, nec
2008	137,856	4,902	1,233	5,905	7,339	7,892	16,931	41,164	2,099	15,692	19,585	5,539	290	1,201	1,009	7,075
2009	144,677	5,266	1,303	6,804	7,904	8,188	18,638	41,218	2,168	15,825	21,243	5,863	312	1,243	1,190	7,512
2010	149,241	5,540	1,457	6,795	8,497	8,668	19,559	41,336	2,071	15,205	22,509	6,274	419	1,459	1,295	8,157

na = not applicable; data were not collected at this level of detail.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 4. Female graduate students in science, engineering, and health in all institutions, by field: 1977–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine	Other health[a]
1977	100,450	77,914	74,208	3,706	22,536	2,665	19,871
1978	NA	NA	NA	NA	NA	NA	NA
1979	116,739	89,277	83,390	5,887	27,462	4,019	23,443
1980	124,122	94,393	88,053	6,340	29,729	4,392	25,337
1981	131,572	99,845	92,098	7,747	31,727	4,474	27,253
1982	135,993	103,569	94,792	8,777	32,424	4,539	27,885
1983	139,504	106,503	96,694	9,809	33,001	4,632	28,369
1984	142,017	107,530	97,231	10,299	34,487	4,889	29,598
1985	145,805	110,621	99,538	11,083	35,184	5,285	29,899
1986	150,787	114,375	102,002	12,373	36,412	5,180	31,232
1987	153,556	117,167	104,196	12,971	36,389	5,253	31,136
1988	159,133	121,238	108,110	13,128	37,895	5,658	32,237
1989	165,753	125,872	112,264	13,608	39,881	5,945	33,936
1990	176,441	133,722	119,043	14,679	42,719	6,282	36,437
1991	186,315	140,830	125,132	15,698	45,485	6,716	38,769
1992	199,300	150,212	132,992	17,220	49,088	7,305	41,783
1993	209,828	156,538	138,850	17,688	53,290	8,180	45,110
1994	216,044	159,111	141,061	18,050	56,933	8,668	48,265
1995	220,335	160,210	142,197	18,013	60,125	9,095	51,030
1996	222,419	161,671	143,417	18,254	60,748	8,749	51,999
1997	222,711	162,011	143,291	18,720	60,700	8,807	51,893
1998	224,608	163,427	144,439	18,988	61,181	9,721	51,460
1999	230,581	168,396	148,509	19,887	62,185	10,201	51,984
2000	231,202	170,479	149,733	20,746	60,723	9,910	50,813
2001	238,452	177,419	155,162	22,257	61,033	10,588	50,445
2002	253,345	188,617	163,650	24,967	64,728	11,775	52,953
2003	268,439	198,397	170,810	27,587	70,042	12,823	57,219
2004	277,749	201,865	174,593	27,272	75,884	13,471	62,413
2005	286,935	206,308	179,413	26,895	80,627	14,075	66,552
2006	297,825	211,106	183,162	27,944	86,719	15,533	71,186
2007old[b]	299,671	218,295	188,321	29,974	81,376	16,306	65,070
2007new[b]	307,490	227,273	196,801	30,472	80,217	15,350	64,867
2008	311,179	231,997	200,460	31,537	79,182	16,347	62,835
2009	303,120	237,749	204,431	33,318	65,371	16,445	48,926
2010	297,171	240,481	206,028	34,453	56,690	17,857	38,833

NA = not available; master's-granting institutions were not surveyed in 1978, and survey of doctorate-granting institutions did not collect data by sex.

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 5. Full-time graduate students in science, engineering, and health in all institutions, by field: 1975–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine	Other health[a]
1975	219,648	202,260	164,437	37,823	17,388	4,560	12,828
1976	223,412	204,815	167,867	36,948	18,597	4,573	14,024
1977	226,738	206,411	169,184	37,227	20,327	4,345	15,982
1978[b]	223,030	201,737	164,151	37,586	21,293	5,029	16,264
1979	231,760	209,000	168,959	40,041	22,760	5,527	17,233
1980	238,416	214,417	171,767	42,650	23,999	5,774	18,225
1981	242,049	217,952	172,200	45,752	24,097	5,622	18,475
1982	244,757	221,874	172,090	49,784	22,883	5,283	17,600
1983	252,017	229,404	175,472	53,932	22,613	5,318	17,295
1984	253,922	230,957	175,766	55,191	22,965	5,263	17,702
1985	257,287	233,938	178,020	55,918	23,349	5,525	17,824
1986	266,168	242,729	182,532	60,197	23,439	5,554	17,885
1987	271,056	247,105	185,143	61,962	23,951	5,833	18,118
1988	275,127	250,557	187,525	63,032	24,570	6,198	18,372
1989	282,648	256,820	192,424	64,396	25,828	6,433	19,395
1990	292,782	265,323	199,313	66,010	27,459	6,901	20,558
1991	307,010	277,070	206,036	71,034	29,940	7,223	22,717
1992	322,555	290,408	215,965	74,443	32,147	7,953	24,194
1993	329,644	293,905	220,097	73,808	35,739	8,833	26,906
1994	332,088	292,979	221,409	71,570	39,109	9,226	29,883
1995	329,283	287,171	219,389	67,782	42,112	9,777	32,335
1996	328,536	284,039	218,180	65,859	44,497	9,803	34,694
1997	327,289	280,669	214,981	65,688	46,620	10,212	36,408
1998	327,389	278,943	213,508	65,435	48,446	10,944	37,502
1999	334,423	283,893	215,870	68,023	50,530	11,554	38,976
2000	341,283	291,355	219,079	72,276	49,928	11,029	38,899
2001	354,522	304,021	226,573	77,448	50,501	11,822	38,679
2002	378,991	325,472	240,020	85,452	53,519	13,334	40,185
2003	397,420	339,028	248,812	90,216	58,392	14,742	43,650
2004	402,573	340,529	253,574	86,955	62,044	14,999	47,045
2005	406,620	341,742	257,283	84,459	64,878	15,102	49,776
2006	419,015	349,802	261,984	87,818	69,213	16,567	52,646
2007old[c]	430,860	362,976	269,821	93,155	67,884	17,451	50,433
2007new[c]	437,365	371,542	277,229	94,313	65,823	15,478	50,345
2008	449,613	383,560	285,305	98,255	66,053	16,965	49,088
2009	456,115	398,498	293,561	104,937	57,617	16,725	40,892
2010	461,185	409,107	299,315	109,792	52,078	17,704	34,374

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[c] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 6. Female, full-time graduate students in science, engineering, and health in all institutions, by field: 1977–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine	Other health[a]
1977	64,853	52,046	49,783	2,263	12,807	1,783	11,024
1978	NA	NA	NA	NA	NA	NA	NA
1979	72,185	57,055	53,614	3,441	15,130	2,656	12,474
1980	77,557	61,316	57,461	3,855	16,241	2,806	13,435
1981	80,573	63,918	59,304	4,614	16,655	2,772	13,883
1982	81,484	65,505	60,256	5,249	15,979	2,681	13,298
1983	83,802	67,898	62,277	5,621	15,904	2,716	13,188
1984	84,848	68,589	62,540	6,049	16,259	2,839	13,420
1985	86,342	69,776	63,492	6,284	16,566	3,031	13,535
1986	89,592	72,917	65,939	6,978	16,675	2,941	13,734
1987	91,626	75,028	67,737	7,291	16,598	2,928	13,670
1988	95,572	78,277	70,654	7,623	17,295	3,233	14,062
1989	99,863	81,773	73,629	8,144	18,090	3,475	14,615
1990	106,063	86,678	77,973	8,705	19,385	3,671	15,714
1991	113,471	92,050	82,372	9,678	21,421	3,884	17,537
1992	121,737	98,686	88,025	10,661	23,051	4,376	18,675
1993	128,866	103,120	91,923	11,197	25,746	4,857	20,889
1994	134,663	106,356	94,778	11,578	28,307	5,079	23,228
1995	138,083	107,401	95,899	11,502	30,682	5,546	25,136
1996	141,420	109,350	97,523	11,827	32,070	5,426	26,644
1997	143,897	110,501	97,993	12,508	33,396	5,624	27,772
1998	146,396	111,623	98,796	12,827	34,773	6,183	28,590
1999	151,483	114,838	101,315	13,523	36,645	6,719	29,926
2000	155,022	118,572	103,720	14,852	36,450	6,509	29,941
2001	161,057	124,158	107,965	16,193	36,899	7,038	29,861
2002	172,839	133,663	115,246	18,417	39,176	8,005	31,171
2003	183,379	140,543	120,467	20,076	42,836	9,020	33,816
2004	189,743	143,708	123,889	19,819	46,035	9,443	36,592
2005	194,775	146,078	126,606	19,472	48,697	9,724	38,973
2006	202,199	150,151	129,469	20,682	52,048	10,760	41,288
2007old[b]	206,848	156,096	133,929	22,167	50,752	11,240	39,512
2007new[b]	211,167	161,545	138,944	22,601	49,622	10,169	39,453
2008	217,162	167,106	143,480	23,626	50,056	11,500	38,556
2009	215,551	172,490	147,071	25,419	43,061	11,337	31,724
2010	213,874	175,481	148,831	26,650	38,393	12,211	26,182

NA = not available; master's-granting institutions were not surveyed in 1978, and survey of doctorate-granting institutions did not collect data by sex.

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 7. U.S. citizen and permanent resident, full-time graduate students in science, engineering, and health in all institutions, by field: 1980–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine	Other health[a]
1980	188,114	166,158	141,405	24,753	21,956	5,075	16,881
1981	187,574	165,623	139,558	26,065	21,951	4,917	17,034
1982	187,290	166,705	138,209	28,496	20,585	4,437	16,148
1983	190,091	169,889	138,714	31,175	20,202	4,411	15,791
1984	190,477	169,870	137,903	31,967	20,607	4,456	16,151
1985	189,043	168,239	136,402	31,837	20,804	4,513	16,291
1986	191,099	170,382	137,132	33,250	20,717	4,500	16,217
1987	192,262	171,095	137,154	33,941	21,167	4,732	16,435
1988	191,656	170,144	136,619	33,525	21,512	5,008	16,504
1989	195,878	173,343	139,256	34,087	22,535	5,181	17,354
1990	201,632	177,747	143,255	34,492	23,885	5,477	18,408
1991	211,562	185,408	148,329	37,079	26,154	5,748	20,406
1992	225,836	197,399	157,510	39,889	28,437	6,541	21,896
1993	236,291	204,405	163,195	41,210	31,886	7,368	24,518
1994	242,265	206,809	165,657	41,152	35,456	7,901	27,555
1995	242,572	204,113	165,521	38,592	38,459	8,545	29,914
1996	241,160	200,674	164,198	36,476	40,486	8,476	32,010
1997	238,582	195,974	161,097	34,877	42,608	8,982	33,626
1998	236,368	191,945	158,559	33,386	44,423	9,661	34,762
1999	236,247	190,076	157,735	32,341	46,171	10,104	36,067
2000	231,010	185,613	154,545	31,068	45,397	9,696	35,701
2001	233,563	188,135	156,352	31,783	45,428	10,076	35,352
2002	247,608	200,097	164,856	35,241	47,511	11,031	36,480
2003	265,067	212,855	173,624	39,231	52,212	12,469	39,743
2004	273,236	217,345	178,463	38,882	55,891	12,822	43,069
2005	279,275	220,842	181,990	38,852	58,433	12,961	45,472
2006	287,684	225,338	185,004	40,334	62,346	14,222	48,124
2007old[b]	294,556	233,343	191,167	42,176	61,213	14,936	46,277
2007new[b]	299,716	240,319	197,473	42,846	59,397	13,290	46,107
2008	304,912	245,691	201,142	44,549	59,221	14,639	44,582
2009	307,192	256,503	207,858	48,645	50,689	14,349	36,340
2010	309,475	263,871	211,598	52,273	45,604	15,489	30,115

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 8. Full-time graduate students with temporary visas in science, engineering, and health in all institutions, by field: 1980–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine	Other health[a]
1980	50,302	48,259	30,362	17,897	2,043	699	1,344
1981	54,475	52,329	32,642	19,687	2,146	705	1,441
1982	57,467	55,169	33,881	21,288	2,298	846	1,452
1983	61,926	59,515	36,758	22,757	2,411	907	1,504
1984	63,445	61,087	37,863	23,224	2,358	807	1,551
1985	68,244	65,699	41,618	24,081	2,545	1,012	1,533
1986	75,069	72,347	45,400	26,947	2,722	1,054	1,668
1987	78,794	76,010	47,989	28,021	2,784	1,101	1,683
1988	83,471	80,413	50,906	29,507	3,058	1,190	1,868
1989	86,770	83,477	53,168	30,309	3,293	1,252	2,041
1990	91,150	87,576	56,058	31,518	3,574	1,424	2,150
1991	95,448	91,662	57,707	33,955	3,786	1,475	2,311
1992	96,719	93,009	58,455	34,554	3,710	1,412	2,298
1993	93,353	89,500	56,902	32,598	3,853	1,465	2,388
1994	89,823	86,170	55,752	30,418	3,653	1,325	2,328
1995	86,711	83,058	53,868	29,190	3,653	1,232	2,421
1996	87,376	83,365	53,982	29,383	4,011	1,327	2,684
1997	88,707	84,695	53,884	30,811	4,012	1,230	2,782
1998	91,021	86,998	54,949	32,049	4,023	1,283	2,740
1999	98,176	93,817	58,135	35,682	4,359	1,450	2,909
2000	110,273	105,742	64,534	41,208	4,531	1,333	3,198
2001	120,959	115,886	70,221	45,665	5,073	1,746	3,327
2002	131,383	125,375	75,164	50,211	6,008	2,303	3,705
2003	132,353	126,173	75,188	50,985	6,180	2,273	3,907
2004	129,337	123,184	75,111	48,073	6,153	2,177	3,976
2005	127,345	120,900	75,293	45,607	6,445	2,141	4,304
2006	131,331	124,464	76,980	47,484	6,867	2,345	4,522
2007old[b]	136,304	129,633	78,654	50,979	6,671	2,515	4,156
2007new[b]	137,649	131,223	79,756	51,467	6,426	2,188	4,238
2008	144,701	137,869	84,163	53,706	6,832	2,326	4,506
2009	148,923	141,995	85,703	56,292	6,928	2,376	4,552
2010	151,710	145,236	87,717	57,519	6,474	2,215	4,259

[a] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 9. Graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	574,463	582,226	597,643	607,823	619,499	631,489	631,645	632,652
Science and engineering	475,873	478,275	486,287	502,375	516,199	529,275	545,685	556,532
Science	352,307	357,710	363,246	372,120	384,523	391,419	401,008	407,291
Agricultural sciences	13,445	13,123	13,016	13,222	13,528	14,153	15,200	15,656
Biological sciences	66,565	68,479	69,941	71,663	71,932	72,666	73,304	74,928
Anatomy	897	938	961	979	867	764	833	849
Biochemistry	5,612	5,814	5,824	5,959	5,853	5,473	5,271	5,308
Biology	15,458	15,681	16,463	16,212	15,898	16,514	16,840	17,210
Biometry/epidemiology	4,674	4,805	4,789	5,483	5,694	5,971	5,739	6,398
Biophysics	1,180	1,183	1,203	1,214	1,193	1,084	1,042	1,072
Botany	1,831	1,860	1,850	1,891	1,821	1,803	1,831	1,863
Cell biology	5,830	6,177	6,553	6,696	6,839	7,096	7,153	7,047
Ecology	2,185	2,165	2,162	2,191	2,026	2,026	1,746	1,828
Entomology/parasitology	1,241	1,126	1,114	1,078	1,078	1,079	1,079	1,116
Genetics	2,129	2,155	2,154	2,152	2,120	2,120	2,242	2,333
Microbiology/immunology/virology	5,375	5,401	5,324	5,314	5,212	5,054	4,968	4,896
Nutrition	4,771	4,817	5,042	5,250	4,890	5,177	5,330	5,548
Pathology	1,557	1,593	1,612	1,633	1,580	1,618	1,450	1,376
Pharmacology	3,122	3,114	2,985	3,030	3,013	3,005	3,163	3,101
Physiology	2,409	2,399	2,416	2,406	2,738	2,863	2,866	2,879
Zoology	1,236	1,264	1,145	1,084	1,108	925	875	896
Biological sciences, nec	7,058	7,987	8,344	9,091	10,002	10,094	10,876	11,208
Communication[a]	ne	ne	ne	ne	7,303	8,444	9,418	9,825
Computer sciences	50,016	47,978	47,653	48,959	48,246	49,553	51,161	51,546
Earth, atmospheric, and ocean sciences	15,131	14,836	14,920	14,675	14,100	14,389	14,839	15,655
Atmospheric sciences	1,086	1,146	1,079	1,117	1,178	1,400	1,355	1,455
Geosciences	7,358	7,212	7,177	7,061	7,020	7,089	7,539	8,251
Oceanography	2,801	2,760	2,770	2,663	2,615	2,634	2,633	2,556
Earth/atmospheric/ocean sciences, nec	3,886	3,718	3,894	3,834	3,287	3,266	3,312	3,393
Family and consumer sciences/ human sciences[a]	ne	ne	ne	ne	2,780	3,549	3,794	4,191
Mathematical sciences	19,931	20,210	20,815	21,335	20,975	21,400	22,226	23,136
Mathematics/applied mathematics	15,964	16,106	16,649	16,894	16,528	16,449	17,204	17,589
Statistics	3,967	4,104	4,166	4,441	4,447	4,951	5,022	5,547
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	4,484	5,559	6,557	7,944
Neuroscience[a]	na	na	na	na	1,584	2,012	2,356	2,798
Physical sciences	35,761	36,375	36,901	37,111	36,824	37,319	38,149	38,973
Astronomy	1,119	1,191	1,211	1,233	1,232	1,275	1,409	1,331
Chemistry	20,776	21,101	21,351	21,424	21,298	21,574	22,094	22,436
Physics	13,298	13,472	13,722	13,845	13,816	13,862	14,060	14,507
Physical sciences, nec	568	611	617	609	478	608	586	699
Psychology[b]	54,126	57,282	57,653	60,284	59,617	58,991	56,184	53,419
Clinical psychology	13,771	14,283	13,947	14,517	14,495	13,691	13,113	12,155
Psychology, general	16,089	16,620	16,622	18,366	17,923	17,322	15,148	14,022
Psychology, nec	24,266	26,379	27,084	27,401	27,199	27,978	27,923	27,242
Social sciences	97,332	99,427	102,347	104,871	103,150	103,384	107,820	109,220
Agricultural economics	2,195	2,127	2,158	2,126	1,989	2,132	2,222	2,180
Anthropology (cultural/social)	7,826	7,750	8,150	8,099	8,129	8,333	8,359	8,528
Economics (except agricultural)	12,318	11,805	12,132	12,328	12,597	12,971	13,993	14,317
Geography	4,809	4,800	4,750	4,660	4,660	4,745	4,810	5,059
History and philosophy of science	994	965	968	1,119	1,054	1,177	1,006	705
Linguistics	2,941	3,187	3,074	3,076	2,879	3,095	3,170	3,132

TABLE 9. Graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Political science	39,023	40,780	41,784	41,854	41,349	40,871	43,919	45,045
Sociology	8,874	9,018	9,035	9,734	9,642	10,002	9,731	9,883
Sociology/anthropology	839	848	837	831	682	653	576	329
Social sciences, nec	17,513	18,147	19,459	21,044	20,169	19,405	20,034	20,042
Engineering	123,566	120,565	123,041	130,255	131,676	137,856	144,677	149,241
Aerospace engineering	4,089	4,170	4,482	4,616	4,616	4,902	5,266	5,540
Agricultural engineering	1,041	1,059	1,073	1,126	1,126	1,233	1,303	1,457
Architecture[a]	na	na	na	na	4,601	5,905	6,804	6,795
Biomedical engineering	5,807	6,067	6,482	6,881	6,904	7,339	7,904	8,497
Chemical engineering	7,452	7,173	7,261	7,383	7,584	7,892	8,188	8,668
Civil engineering[a]	18,561	18,114	17,802	19,867	16,071	16,931	18,638	19,559
Electrical engineering	38,995	37,450	38,265	40,207	40,588	41,164	41,218	41,336
Engineering science	2,198	1,951	2,046	1,843	1,806	2,099	2,168	2,071
Industrial engineering	13,852	13,650	13,829	14,290	14,474	15,692	15,825	15,205
Mechanical engineering	17,852	17,373	17,919	18,366	18,347	19,585	21,243	22,509
Metallurgical/materials engineering	5,059	5,160	5,268	5,365	5,314	5,539	5,863	6,274
Mining engineering	308	279	244	307	222	290	312	419
Nuclear engineering	971	1,013	1,099	1,208	1,180	1,201	1,243	1,459
Petroleum engineering	845	808	813	1,014	1,014	1,009	1,190	1,295
Engineering, nec	6,536	6,298	6,458	7,782	7,829	7,075	7,512	8,157
Health[b]	98,590	103,951	111,356	105,448	103,300	102,214	85,960	76,120
Clinical medicine	20,866	21,414	23,441	24,616	22,751	23,939	24,125	25,699
Anesthesiology	1,337	1,363	1,370	883	883	589	402	325
Cardiology	39	33	32	51	51	47	50	51
Endocrinology	63	56	42	40	40	64	50	53
Gastroenterology	16	7	18	28	28	15	15	7
Hematology	30	13	14	9	9	8	11	6
Neurology[a]	2,642	2,783	2,981	3,381	1,751	1,462	1,323	1,056
Obstetrics/gynecology	17	21	54	81	81	83	89	79
Oncology/cancer research	274	331	341	355	264	260	272	232
Ophthalmology	423	394	414	407	379	1	1	5
Otorhinolaryngology	12	12	14	15	15	14	4	4
Pediatrics	424	278	284	302	302	207	186	211
Preventive medicine/community health	12,335	12,605	14,320	15,561	16,209	17,901	18,797	20,445
Psychiatry	403	250	274	278	218	188	233	260
Pulmonary disease	7	27	10	24	24	13	13	12
Radiology	262	276	288	270	281	320	385	396
Surgery	75	88	105	47	31	31	40	59
Clinical medicine, nec	2,507	2,877	2,880	2,884	2,185	2,736	2,254	2,498
Other health[b]	77,724	82,537	87,915	80,832	80,549	78,275	61,835	50,421
Dental sciences	1,946	1,748	1,614	1,537	1,688	1,643	1,770	1,661
Nursing	29,781	31,670	35,846	31,747	31,803	30,471	21,355	12,107
Pharmaceutical sciences	5,218	6,091	6,315	4,964	5,066	4,251	4,443	4,291

TABLE 9. Graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Speech pathology/audiology	14,045	14,821	14,847	16,237	16,229	15,968	14,641	14,645
Veterinary sciences	1,732	1,970	2,067	2,020	2,371	2,478	2,170	2,211
Other health, nec	25,002	26,237	27,226	24,327	23,392	23,464	17,456	15,506

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	277,749	286,935	297,825	299,671	307,490	311,179	303,120	297,171
Science and engineering	201,865	206,308	211,106	218,295	227,273	231,997	237,749	240,481
Science	174,593	179,413	183,162	188,321	196,801	200,460	204,431	206,028
Agricultural sciences	6,258	6,202	6,299	6,444	6,627	6,891	7,485	7,819
Biological sciences	37,289	38,521	39,369	40,651	40,754	41,334	41,818	42,571
Anatomy	467	466	487	505	428	383	428	432
Biochemistry	2,643	2,818	2,812	2,899	2,868	2,691	2,615	2,655
Biology	8,617	8,638	9,056	9,042	8,891	9,226	9,494	9,582
Biometry/epidemiology	2,867	3,009	2,985	3,330	3,412	3,560	3,395	3,747
Biophysics	434	408	405	418	417	383	377	376
Botany	974	985	962	977	940	945	971	979
Cell biology	3,095	3,290	3,530	3,653	3,742	3,903	3,950	3,823
Ecology	1,192	1,210	1,224	1,249	1,139	1,126	960	1,009
Entomology/parasitology	565	520	518	507	507	504	512	550
Genetics	1,283	1,309	1,317	1,284	1,274	1,277	1,351	1,373
Microbiology/immunology/virology	3,053	3,082	3,050	3,060	3,004	2,933	2,911	2,849
Nutrition	3,721	3,791	3,941	4,117	3,865	4,172	4,300	4,479
Pathology	922	958	981	999	964	1,011	910	835
Pharmacology	1,693	1,713	1,664	1,679	1,671	1,679	1,772	1,755
Physiology	1,229	1,255	1,275	1,277	1,460	1,505	1,425	1,466
Zoology	640	636	586	571	595	466	476	508
Biological sciences, nec	3,894	4,433	4,576	5,084	5,577	5,570	5,971	6,153
Communication[a]	ne	ne	ne	ne	4,647	5,381	6,029	6,353
Computer sciences	13,277	12,045	12,062	12,206	12,017	12,545	13,053	12,807
Earth, atmospheric, and ocean sciences	6,932	6,895	7,004	6,951	6,650	6,621	6,815	7,200
Atmospheric sciences	363	388	367	395	419	449	447	484
Geosciences	3,059	3,043	3,081	3,055	3,040	3,042	3,195	3,493
Oceanography	1,509	1,481	1,497	1,464	1,439	1,433	1,431	1,423
Earth/atmospheric/ocean sciences, nec	2,001	1,983	2,059	2,037	1,752	1,697	1,742	1,800
Family and consumer sciences/ human sciences[a]	ne	ne	ne	ne	2,327	2,958	3,203	3,461
Mathematical sciences	7,497	7,437	7,693	7,781	7,678	7,751	7,979	8,127
Mathematics/applied mathematics	5,613	5,560	5,772	5,751	5,648	5,540	5,787	5,768
Statistics	1,884	1,877	1,921	2,030	2,030	2,211	2,192	2,359
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	2,560	3,234	3,809	4,493
Neuroscience[a]	na	na	na	na	863	1,097	1,264	1,474
Physical sciences	11,300	11,726	12,005	12,253	12,109	12,333	12,691	12,826
Astronomy	355	394	407	414	414	410	431	423
Chemistry	8,232	8,423	8,644	8,821	8,770	8,983	9,222	9,261
Physics	2,501	2,669	2,710	2,776	2,768	2,758	2,846	2,899
Physical sciences, nec	212	240	244	242	157	182	192	243
Psychology[b]	40,156	43,319	43,703	45,594	45,116	44,615	42,536	40,238
Clinical psychology	10,623	11,012	10,843	11,294	11,269	10,589	10,205	9,455
Psychology, general	10,958	11,930	11,989	13,405	13,036	12,581	10,867	9,992
Psychology, nec	18,575	20,377	20,871	20,895	20,811	21,445	21,464	20,791
Social sciences	51,884	53,268	55,027	56,441	55,453	55,700	57,749	58,659
Agricultural economics	854	875	909	907	849	914	949	927
Anthropology (cultural/social)	4,973	4,940	5,215	5,151	5,169	5,314	5,337	5,490
Economics (except agricultural)	4,485	4,254	4,343	4,555	4,699	4,815	5,120	5,214
Geography	2,008	2,013	2,002	1,971	1,971	1,999	2,071	2,172
History and philosophy of science	414	440	428	482	449	496	409	316
Linguistics	1,927	2,055	1,986	1,993	1,876	2,002	1,940	1,888

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Political science	20,820	21,882	22,239	22,146	21,820	21,696	23,379	23,970
Sociology	5,794	5,793	5,793	6,235	6,163	6,440	6,159	6,326
Sociology/anthropology	547	545	547	552	455	424	371	218
Social sciences, nec	10,062	10,471	11,565	12,449	12,002	11,600	12,014	12,138
Engineering	27,272	26,895	27,944	29,974	30,472	31,537	33,318	34,453
Aerospace engineering	600	607	709	700	700	722	734	784
Agricultural engineering	311	323	350	366	366	398	437	509
Architecture[a]	na	na	na	na	1,974	2,612	2,997	3,044
Biomedical engineering	2,183	2,297	2,486	2,610	2,621	2,761	2,979	3,133
Chemical engineering	2,106	2,079	2,159	2,235	2,266	2,409	2,616	2,722
Civil engineering[a]	5,441	5,405	5,423	6,348	4,736	4,765	5,301	5,571
Electrical engineering	7,201	6,788	7,026	7,367	7,439	7,340	7,174	7,193
Engineering science	465	419	451	412	409	471	478	438
Industrial engineering	3,230	3,296	3,466	3,520	3,544	3,714	3,800	3,684
Mechanical engineering	2,456	2,408	2,485	2,615	2,614	2,749	2,990	3,186
Metallurgical/materials engineering	1,321	1,348	1,390	1,460	1,473	1,533	1,589	1,754
Mining engineering	42	39	43	51	37	49	55	77
Nuclear engineering	196	211	214	226	221	214	198	228
Petroleum engineering	134	121	135	183	183	191	209	235
Engineering, nec	1,586	1,554	1,607	1,881	1,889	1,609	1,761	1,895
Health[b]	75,884	80,627	86,719	81,376	80,217	79,182	65,371	56,690
Clinical medicine	13,471	14,075	15,533	16,306	15,350	16,347	16,445	17,857
Anesthesiology	868	900	905	561	561	354	249	193
Cardiology	11	13	11	29	29	22	20	22
Endocrinology	39	31	21	24	24	47	33	31
Gastroenterology	9	5	10	14	14	7	8	3
Hematology	16	5	4	7	7	4	6	3
Neurology[a]	1,331	1,426	1,571	1,820	932	782	676	552
Obstetrics/gynecology	10	9	33	57	57	65	69	61
Oncology/cancer research	157	189	195	207	152	154	156	136
Ophthalmology	275	264	280	291	273	0	0	1
Otorhinolaryngology	1	5	7	9	9	9	2	2
Pediatrics	363	229	236	249	249	163	141	161
Preventive medicine/community health	8,510	8,929	10,113	11,011	11,468	12,818	13,452	14,865
Psychiatry	321	198	219	234	177	152	182	207
Pulmonary disease	6	13	4	9	9	6	9	8
Radiology	123	132	140	84	85	85	115	124
Surgery	30	27	41	21	11	11	18	29
Clinical medicine, nec	1,401	1,700	1,743	1,679	1,293	1,668	1,309	1,459
Other health[b]	62,413	66,552	71,186	65,070	64,867	62,835	48,926	38,833
Dental sciences	841	781	686	625	699	679	751	744
Nursing	26,981	28,731	32,539	28,842	28,910	27,746	19,462	10,932
Pharmaceutical sciences	2,904	3,446	3,532	2,670	2,722	2,211	2,298	2,227

TABLE 10. Female graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Speech pathology/audiology	13,059	13,856	13,850	14,974	14,980	14,755	13,590	13,531
Veterinary sciences	1,040	1,241	1,309	1,293	1,510	1,597	1,362	1,415
Other health, nec	17,588	18,497	19,270	16,666	16,046	15,847	11,463	9,984

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 11. Full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	402,573	406,620	419,015	430,860	437,365	449,613	456,115	461,185
Science and engineering	340,529	341,742	349,802	362,976	371,542	383,560	398,498	409,107
Science	253,574	257,283	261,984	269,821	277,229	285,305	293,561	299,315
Agricultural sciences	10,040	9,710	9,478	9,634	9,822	10,132	10,823	11,087
Biological sciences	55,848	57,697	58,918	60,093	60,428	60,662	61,466	62,770
Anatomy	802	844	899	906	823	731	806	800
Biochemistry	5,333	5,486	5,433	5,581	5,498	5,085	4,886	4,909
Biology	11,554	11,926	12,413	12,330	12,062	12,486	12,811	13,084
Biometry/epidemiology	3,218	3,417	3,495	3,734	3,919	4,294	4,176	4,868
Biophysics	1,115	1,120	1,145	1,183	1,159	1,037	1,001	1,033
Botany	1,653	1,667	1,655	1,713	1,655	1,613	1,664	1,679
Cell biology	5,395	5,770	6,188	6,317	6,445	6,632	6,660	6,621
Ecology	1,531	1,600	1,602	1,744	1,617	1,620	1,417	1,471
Entomology/parasitology	1,046	943	947	926	926	910	892	933
Genetics	2,047	2,063	2,060	2,067	2,042	2,056	2,175	2,254
Microbiology/immunology/virology	5,083	5,074	5,015	4,992	4,898	4,745	4,660	4,569
Nutrition	3,385	3,424	3,441	3,621	3,365	3,526	3,631	3,776
Pathology	1,367	1,375	1,400	1,406	1,386	1,384	1,308	1,272
Pharmacology	2,974	2,905	2,818	2,808	2,789	2,743	2,884	2,756
Physiology	2,219	2,187	2,195	2,164	2,455	2,606	2,597	2,678
Zoology	1,072	1,094	994	964	976	726	661	589
Biological sciences, nec	6,054	6,802	7,218	7,637	8,413	8,468	9,237	9,478
Communication[a]	ne	ne	ne	ne	4,528	5,224	6,091	6,274
Computer sciences	29,162	28,317	28,760	30,511	30,082	31,338	32,198	32,782
Earth, atmospheric, and ocean sciences	11,685	11,370	11,431	11,376	10,892	11,171	11,589	12,318
Atmospheric sciences	963	1,002	930	959	1,011	1,169	1,132	1,193
Geosciences	5,712	5,537	5,497	5,473	5,423	5,409	5,825	6,352
Oceanography	2,284	2,198	2,231	2,177	2,144	2,120	2,197	2,130
Earth/atmospheric/ocean sciences, nec	2,726	2,633	2,773	2,767	2,314	2,473	2,435	2,643
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	1,594	1,936	2,168	2,377
Mathematical sciences	14,916	15,261	15,571	15,966	15,668	16,241	16,885	17,606
Mathematics/applied mathematics	11,915	12,051	12,348	12,587	12,279	12,530	12,950	13,427
Statistics	3,001	3,210	3,223	3,379	3,389	3,711	3,935	4,179
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	2,398	3,110	3,957	5,063
Neuroscience[a]	na	na	na	na	1,530	1,909	2,261	2,682
Physical sciences	31,675	32,400	32,841	33,091	32,857	33,254	34,181	34,856
Astronomy	1,078	1,129	1,158	1,186	1,185	1,233	1,348	1,292
Chemistry	18,311	18,760	18,942	19,001	18,887	19,073	19,682	20,011
Physics	12,017	12,224	12,439	12,596	12,570	12,626	12,771	13,085
Physical sciences, nec	269	287	302	308	215	322	380	468
Psychology[b]	37,872	38,919	38,994	41,166	40,678	42,103	40,373	38,571
Clinical psychology	10,238	10,531	10,168	10,687	10,691	10,349	10,144	9,378
Psychology, general	11,689	12,016	12,148	12,824	12,550	12,925	11,443	10,716
Psychology, nec	15,945	16,372	16,678	17,655	17,437	18,829	18,786	18,477
Social sciences	62,376	63,609	65,991	67,984	66,752	68,225	71,569	72,929
Agricultural economics	1,888	1,831	1,836	1,856	1,762	1,868	1,896	1,825
Anthropology (cultural/social)	5,832	5,877	6,219	6,303	6,315	6,459	6,462	6,596
Economics (except agricultural)	10,037	9,715	10,018	10,181	10,358	10,541	11,433	11,879
Geography	3,172	3,196	3,158	3,166	3,166	3,299	3,331	3,373
History and philosophy of science	533	582	602	726	661	798	653	476
Linguistics	2,364	2,519	2,488	2,453	2,275	2,328	2,386	2,419
Political science	21,101	22,222	23,109	23,473	23,209	23,640	25,970	26,850

TABLE 11. Full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Sociology	6,428	6,614	6,682	6,819	6,750	7,110	7,006	7,222
Sociology/anthropology	598	601	579	559	428	393	301	171
Social sciences, nec	10,423	10,452	11,300	12,448	11,828	11,789	12,131	12,118
Engineering	86,955	84,459	87,818	93,155	94,313	98,255	104,937	109,792
Aerospace engineering	3,243	3,241	3,374	3,482	3,482	3,691	3,974	4,211
Agricultural engineering	842	855	893	917	917	1,022	1,084	1,198
Architecture[a]	na	na	na	na	4,097	5,211	6,112	6,079
Biomedical engineering	5,047	5,254	5,666	5,898	5,921	6,262	6,859	7,418
Chemical engineering	6,379	6,139	6,218	6,275	6,459	6,762	7,110	7,516
Civil engineering[a]	13,588	13,196	13,074	14,691	11,336	11,909	13,503	14,191
Electrical engineering	26,732	25,849	27,379	28,934	29,076	29,212	29,282	29,977
Engineering science	1,741	1,613	1,656	1,454	1,432	1,486	1,490	1,502
Industrial engineering	6,591	6,113	6,421	7,036	7,422	8,216	8,362	8,371
Mechanical engineering	12,718	12,178	12,666	13,170	13,160	13,763	15,609	16,625
Metallurgical/materials engineering	4,359	4,507	4,627	4,667	4,613	4,811	5,181	5,551
Mining engineering	238	212	181	209	142	207	212	361
Nuclear engineering	809	840	910	960	951	941	968	1,123
Petroleum engineering	660	631	647	792	792	828	993	1,063
Engineering, nec	4,008	3,831	4,106	4,670	4,513	3,934	4,198	4,606
Health[b]	62,044	64,878	69,213	67,884	65,823	66,053	57,617	52,078
Clinical medicine	14,999	15,102	16,567	17,451	15,478	16,965	16,725	17,704
Anesthesiology	1,098	1,120	1,189	826	826	562	400	321
Cardiology	39	33	32	51	51	38	38	48
Endocrinology	57	52	42	37	37	60	47	48
Gastroenterology	13	3	17	28	28	15	15	7
Hematology	24	9	14	9	9	8	9	4
Neurology[a]	2,561	2,684	2,885	3,283	1,707	1,416	1,284	1,039
Obstetrics/gynecology	13	16	47	71	71	65	69	55
Oncology/cancer research	270	329	340	355	264	260	258	229
Ophthalmology	406	380	389	385	378	1	1	5
Otorhinolaryngology	6	6	8	7	7	9	2	3
Pediatrics	327	225	245	267	267	169	162	183
Preventive medicine/community health	7,764	7,552	8,590	9,292	9,585	11,679	12,219	13,312
Psychiatry	200	117	126	153	93	95	114	122
Pulmonary disease	7	27	10	23	23	13	12	12
Radiology	171	189	184	213	224	225	271	284
Surgery	59	70	85	45	29	17	26	49
Clinical medicine, nec	1,984	2,290	2,364	2,406	1,879	2,333	1,798	1,983
Other health[b]	47,045	49,776	52,646	50,433	50,345	49,088	40,892	34,374
Dental sciences	1,763	1,494	1,340	1,265	1,406	1,372	1,564	1,494
Nursing	11,598	12,571	13,979	13,137	13,128	13,204	9,544	4,980
Pharmaceutical sciences	3,633	4,255	4,480	3,756	3,852	2,979	3,182	3,032

TABLE 11. Full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Speech pathology/audiology	10,866	11,259	11,506	12,698	12,679	12,438	12,466	12,554
Veterinary sciences	1,364	1,532	1,663	1,634	1,891	1,860	1,637	1,651
Other health, nec	17,821	18,665	19,678	17,943	17,389	17,235	12,499	10,663

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 12. First-time, full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	106,544	110,219	116,482	120,236	122,449	130,635	134,756	136,487
Science and engineering	86,565	89,038	94,413	98,205	100,990	108,819	115,755	118,492
Science	64,540	66,665	68,537	70,387	72,725	78,227	83,252	84,689
Agricultural sciences	2,316	2,260	2,206	2,313	2,356	2,597	2,994	3,121
Biological sciences	12,796	12,918	13,055	13,485	13,749	14,528	15,443	16,038
Anatomy	180	213	213	252	194	146	181	154
Biochemistry	907	930	992	945	945	966	949	880
Biology	2,740	2,826	2,994	3,083	3,005	3,221	3,421	3,494
Biometry/epidemiology	986	1,069	974	1,126	1,171	1,147	1,198	1,510
Biophysics	210	174	186	197	183	199	161	190
Botany	336	316	318	333	331	304	340	339
Cell biology	1,140	1,208	1,294	1,249	1,254	1,372	1,461	1,500
Ecology	302	314	294	361	337	355	285	335
Entomology/parasitology	211	153	169	161	161	167	193	193
Genetics	441	365	348	330	319	370	405	402
Microbiology/immunology/virology	889	868	853	741	724	772	799	789
Nutrition	843	863	905	1,121	1,035	1,110	1,121	1,275
Pathology	277	248	269	257	266	321	266	230
Pharmacology	510	466	469	437	437	487	577	549
Physiology	731	678	597	603	669	690	751	727
Zoology	212	199	179	165	215	145	133	119
Biological sciences, nec	1,881	2,028	2,001	2,124	2,503	2,756	3,202	3,352
Communication[a]	ne	ne	ne	ne	1,531	1,912	2,119	2,089
Computer sciences	7,783	8,258	8,983	9,352	9,256	10,434	10,557	10,583
Earth, atmospheric, and ocean sciences	2,926	2,758	2,795	2,861	2,749	2,904	3,153	3,445
Atmospheric sciences	228	228	207	233	243	263	250	279
Geosciences	1,336	1,308	1,348	1,410	1,405	1,429	1,682	1,887
Oceanography	534	463	457	412	402	466	517	502
Earth/atmospheric/ocean sciences, nec	828	759	783	806	699	746	704	777
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	492	579	633	741
Mathematical sciences	4,252	4,196	4,342	4,595	4,432	4,591	4,888	5,193
Mathematics/applied mathematics	3,365	3,263	3,398	3,518	3,352	3,409	3,611	3,801
Statistics	887	933	944	1,077	1,080	1,182	1,277	1,392
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	771	1,140	1,412	1,759
Neuroscience[a]	na	na	na	na	273	304	395	505
Physical sciences	6,603	6,657	6,626	6,787	6,711	6,892	7,276	7,577
Astronomy	210	190	204	207	207	225	250	234
Chemistry	3,862	3,904	3,900	3,972	3,938	4,161	4,331	4,557
Physics	2,442	2,458	2,409	2,534	2,523	2,406	2,571	2,663
Physical sciences, nec	89	105	113	74	43	100	124	123
Psychology[b]	9,478	10,358	10,224	10,624	10,476	11,082	10,980	10,231
Clinical psychology	2,251	2,318	2,201	2,232	2,227	2,064	2,136	2,025
Psychology, general	2,946	3,385	3,374	3,536	3,438	3,635	3,300	3,024
Psychology, nec	4,281	4,655	4,649	4,856	4,811	5,383	5,544	5,182
Social sciences	18,386	19,260	20,306	20,370	19,929	21,264	23,402	23,407
Agricultural economics	523	557	543	516	491	573	610	510
Anthropology (cultural/social)	1,187	1,243	1,314	1,305	1,310	1,444	1,452	1,454
Economics (except agricultural)	2,686	2,724	2,907	3,108	3,179	3,263	3,855	3,926
Geography	860	898	845	897	897	1,013	1,017	1,042
History and philosophy of science	107	138	121	163	151	205	119	94
Linguistics	570	633	577	580	535	557	632	645
Political science	7,333	7,807	8,319	7,749	7,627	8,152	9,736	9,637
Sociology	1,359	1,499	1,353	1,647	1,610	1,795	1,671	1,685

TABLE 12. First-time, full-time graduate students in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Sociology/anthropology	178	173	151	136	120	93	90	44
Social sciences, nec	3,583	3,588	4,176	4,269	4,009	4,169	4,220	4,370
Engineering	22,025	22,373	25,876	27,818	28,265	30,592	32,503	33,803
Aerospace engineering	834	804	943	962	962	1,116	1,176	1,196
Agricultural engineering	177	190	222	224	224	256	296	346
Architecture[a]	na	na	na	na	1,533	1,979	2,273	2,263
Biomedical engineering	1,274	1,267	1,472	1,559	1,565	1,648	1,833	2,011
Chemical engineering	1,392	1,293	1,429	1,532	1,566	1,713	1,910	2,047
Civil engineering[a]	4,175	4,057	4,198	4,926	3,662	4,073	4,878	5,079
Electrical engineering	6,633	6,987	8,668	8,887	8,920	9,042	8,831	9,237
Engineering science	361	317	321	331	339	398	309	356
Industrial engineering	1,724	1,674	2,148	2,445	2,626	3,015	2,908	2,783
Mechanical engineering	3,129	3,225	3,734	3,941	3,937	4,297	4,814	5,055
Metallurgical/materials engineering	926	992	1,043	1,089	1,086	1,170	1,302	1,431
Mining engineering	64	58	50	58	33	48	45	54
Nuclear engineering	192	193	206	239	237	259	265	330
Petroleum engineering	151	161	174	220	220	261	306	265
Engineering, nec	993	1,155	1,268	1,405	1,355	1,317	1,357	1,350
Health[b]	19,979	21,181	22,069	22,031	21,459	21,816	19,001	17,995
Clinical medicine	4,728	4,626	5,280	5,701	5,225	6,213	6,141	6,545
Anesthesiology	186	251	358	189	189	209	124	106
Cardiology	9	4	3	22	22	2	9	10
Endocrinology	4	10	7	7	7	20	8	7
Gastroenterology	4	3	0	0	0	3	1	2
Hematology	3	0	1	3	3	5	1	0
Neurology[a]	426	425	454	567	283	216	244	157
Obstetrics/gynecology	3	4	9	30	30	28	29	27
Oncology/cancer research	52	43	45	42	34	34	47	39
Ophthalmology	76	80	92	83	80	0	0	1
Otorhinolaryngology	1	0	0	2	2	0	0	2
Pediatrics	125	100	110	88	88	62	49	54
Preventive medicine/community health	3,132	2,894	3,355	3,784	3,839	4,771	4,898	5,311
Psychiatry	41	34	32	12	12	30	38	44
Pulmonary disease	0	0	0	1	1	3	0	0
Radiology	36	48	60	70	74	74	87	99
Surgery	7	5	11	5	4	4	6	21
Clinical medicine, nec	623	725	743	796	557	752	600	665
Other health[b]	15,251	16,555	16,789	16,330	16,234	15,603	12,860	11,450
Dental sciences	449	429	402	364	389	410	475	421
Nursing	3,352	3,948	3,944	3,953	3,950	3,584	2,315	1,386
Pharmaceutical sciences	1,024	1,246	1,036	712	732	691	756	662
Speech pathology/audiology	4,303	4,496	4,491	4,626	4,620	4,691	4,683	4,729
Veterinary sciences	324	343	378	478	524	439	342	334
Other health, nec	5,799	6,093	6,538	6,197	6,019	5,788	4,289	3,918

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	574,463	582,226	597,643	607,823	619,499	631,489	631,645	632,652
U.S. citizens and permanent residents	423,218	434,730	446,625	450,251	460,294	463,450	459,648	458,492
Hispanic or Latino	28,031	29,309	30,510	31,110	31,700	31,648	32,336	33,375
Not Hispanic or Latino								
American Indian or Alaska Native	2,354	2,485	2,689	2,777	2,862	3,286	3,042	2,884
Asian[b]	36,084	36,432	36,635	36,924	37,297	36,579	37,310	37,228
Black or African American	32,496	33,547	34,866	34,934	35,923	37,047	37,349	38,199
Native Hawaiian or Other Pacific Islander[b]	1,651	1,332	1,228	1,472	1,485	1,426	1,350	1,354
White	288,574	292,276	299,275	298,917	306,001	306,989	302,677	299,993
More than one race[b]	569	629	608	662	667	1,556	2,645	5,816
Unknown ethnicity/race	33,459	38,720	40,814	43,455	44,359	44,919	42,939	39,643
Temporary visa holders	151,245	147,496	151,018	157,572	159,205	168,039	171,997	174,160
Science and engineering	475,873	478,275	486,287	502,375	516,199	529,275	545,685	556,532
U.S. citizens and permanent residents	332,022	338,513	343,603	353,142	365,091	369,781	382,342	390,403
Hispanic or Latino	22,212	23,387	24,140	25,032	25,739	26,098	27,265	28,609
Not Hispanic or Latino								
American Indian or Alaska Native	1,848	1,958	2,112	2,168	2,262	2,618	2,549	2,500
Asian[b]	29,570	29,547	29,232	30,134	30,697	30,356	31,754	32,185
Black or African American	24,624	25,248	25,664	26,565	27,637	28,680	29,973	31,094
Native Hawaiian or Other Pacific Islander[b]	1,075	1,027	947	1,145	1,200	1,121	1,125	1,088
White	224,850	225,776	227,993	232,043	240,204	242,623	250,443	255,256
More than one race[b]	493	528	501	543	551	1,319	2,300	4,989
Unknown ethnicity/race	27,350	31,042	33,014	35,512	36,801	36,966	36,933	34,682
Temporary visa holders	143,851	139,762	142,684	149,233	151,108	159,494	163,343	166,129
Science	352,307	357,710	363,246	372,120	384,523	391,419	401,008	407,291
U.S. citizens and permanent residents	265,643	271,962	275,905	282,785	293,792	295,530	303,700	308,108
Hispanic or Latino	18,048	19,297	19,759	20,515	21,176	21,382	22,047	22,969
Not Hispanic or Latino								
American Indian or Alaska Native	1,575	1,685	1,822	1,882	1,972	2,272	2,205	2,171
Asian[b]	20,007	19,952	20,182	20,818	21,261	20,808	21,976	21,915
Black or African American	21,225	21,778	22,092	22,881	23,862	24,694	25,801	26,914
Native Hawaiian or Other Pacific Islander[b]	926	892	818	946	998	965	976	914
White	181,615	182,908	184,700	187,292	194,875	195,037	200,047	202,386
More than one race[b]	437	454	448	457	464	1,147	1,950	3,987
Unknown ethnicity/race	21,810	24,996	26,084	27,994	29,184	29,225	28,698	26,852
Temporary visa holders	86,664	85,748	87,341	89,335	90,731	95,889	97,308	99,183
Agricultural sciences	13,445	13,123	13,016	13,222	13,528	14,153	15,200	15,656
U.S. citizens and permanent residents	10,750	10,464	10,341	10,487	10,631	11,047	11,938	12,416
Hispanic or Latino	524	506	535	576	604	611	749	770
Not Hispanic or Latino								
American Indian or Alaska Native	82	76	85	87	88	130	134	146
Asian[b]	305	264	311	311	320	352	366	340
Black or African American	394	417	453	431	434	470	406	482
Native Hawaiian or Other Pacific Islander[b]	24	26	27	22	20	32	33	37
White	8,936	8,662	8,384	8,452	8,572	8,725	9,421	9,867
More than one race[b]	7	19	21	15	15	53	66	109
Unknown ethnicity/race	478	494	525	593	578	674	763	665
Temporary visa holders	2,695	2,659	2,675	2,735	2,897	3,106	3,262	3,240
Biological sciences	66,565	68,479	69,941	71,663	71,932	72,666	73,304	74,928
U.S. citizens and permanent residents	50,734	52,012	53,034	54,784	55,305	55,112	55,955	57,497
Hispanic or Latino	2,993	3,146	3,289	3,470	3,474	3,498	3,719	3,970
Not Hispanic or Latino								
American Indian or Alaska Native	248	277	310	300	302	335	330	361
Asian[b]	4,985	5,157	5,467	5,738	5,802	5,513	5,878	6,105
Black or African American	2,902	2,991	3,071	3,303	3,320	3,394	3,575	3,653

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	292	263	242	278	311	286	286	242
White	36,053	36,627	37,163	37,605	37,682	37,585	37,464	38,386
More than one race[b]	97	113	86	78	81	192	265	635
Unknown ethnicity/race	3,164	3,438	3,406	4,012	4,333	4,309	4,438	4,145
Temporary visa holders	15,831	16,467	16,907	16,879	16,627	17,554	17,349	17,431
Communication[a]	ne	ne	ne	ne	7,303	8,444	9,418	9,825
U.S. citizens and permanent residents	ne	ne	ne	ne	6,150	7,049	7,806	8,301
Hispanic or Latino	ne	ne	ne	ne	386	437	443	563
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	32	50	52	63
Asian[b]	ne	ne	ne	ne	239	289	323	309
Black or African American	ne	ne	ne	ne	516	644	688	785
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	4	16	25	18
White	ne	ne	ne	ne	4,400	4,880	5,506	5,848
More than one race[b]	ne	ne	ne	ne	1	23	86	119
Unknown ethnicity/race	ne	ne	ne	ne	572	710	683	596
Temporary visa holders	ne	ne	ne	ne	1,153	1,395	1,612	1,524
Computer sciences	50,016	47,978	47,653	48,959	48,246	49,553	51,161	51,546
U.S. citizens and permanent residents	28,261	27,409	26,675	25,957	25,441	25,316	26,325	26,170
Hispanic or Latino	1,142	1,199	1,207	1,191	1,170	1,227	1,371	1,455
Not Hispanic or Latino								
American Indian or Alaska Native	91	100	105	96	94	130	128	125
Asian[b]	5,024	4,501	4,149	3,790	3,685	3,578	3,854	3,543
Black or African American	1,799	1,761	1,774	1,865	1,834	1,889	2,088	2,228
Native Hawaiian or Other Pacific Islander[b]	78	72	73	48	47	40	62	59
White	16,938	16,555	15,943	15,089	14,811	14,930	15,533	15,604
More than one race[b]	26	22	18	14	14	48	121	298
Unknown ethnicity/race	3,163	3,199	3,406	3,864	3,786	3,474	3,168	2,858
Temporary visa holders	21,755	20,569	20,978	23,002	22,805	24,237	24,836	25,376
Earth, atmospheric, and ocean sciences	15,131	14,836	14,920	14,675	14,100	14,389	14,839	15,655
U.S. citizens and permanent residents	12,337	12,058	12,153	11,952	11,488	11,612	12,082	12,729
Hispanic or Latino	538	508	540	555	522	525	585	669
Not Hispanic or Latino								
American Indian or Alaska Native	67	61	69	88	80	74	75	102
Asian[b]	402	364	363	403	372	372	389	402
Black or African American	261	262	263	279	272	301	311	328
Native Hawaiian or Other Pacific Islander[b]	26	36	26	18	16	15	26	19
White	10,342	10,126	10,116	9,783	9,443	9,354	9,651	10,141
More than one race[b]	25	16	14	13	13	37	55	146
Unknown ethnicity/race	676	685	762	813	770	934	990	922
Temporary visa holders	2,794	2,778	2,767	2,723	2,612	2,777	2,757	2,926
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	2,780	3,549	3,794	4,191
U.S. citizens and permanent residents	ne	ne	ne	ne	2,534	3,214	3,452	3,804
Hispanic or Latino	ne	ne	ne	ne	87	135	158	205
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	23	22	23	26
Asian[b]	ne	ne	ne	ne	90	145	136	147
Black or African American	ne	ne	ne	ne	322	397	538	595
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	0	0	1	2
White	ne	ne	ne	ne	1,870	2,247	2,390	2,548
More than one race[b]	ne	ne	ne	ne	3	9	5	37
Unknown ethnicity/race	ne	ne	ne	ne	139	259	201	244
Temporary visa holders	ne	ne	ne	ne	246	335	342	387

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Mathematical sciences	19,931	20,210	20,815	21,335	20,975	21,400	22,226	23,136
U.S. citizens and permanent residents	12,524	12,768	13,219	13,608	13,432	13,235	13,911	14,521
Hispanic or Latino	625	633	695	764	758	710	788	794
Not Hispanic or Latino								
American Indian or Alaska Native	39	38	59	47	45	58	47	51
Asian[b]	1,267	1,335	1,378	1,379	1,348	1,304	1,389	1,501
Black or African American	696	720	711	711	708	681	730	740
Native Hawaiian or Other Pacific Islander[b]	31	37	35	39	39	56	68	34
White	8,859	8,916	9,201	9,329	9,219	9,154	9,527	9,722
More than one race[b]	21	17	18	15	15	25	147	248
Unknown ethnicity/race	986	1,072	1,122	1,324	1,300	1,247	1,215	1,431
Temporary visa holders	7,407	7,442	7,596	7,727	7,543	8,165	8,315	8,615
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	4,484	5,559	6,557	7,944
U.S. citizens and permanent residents	ne	ne	ne	ne	3,788	4,653	5,528	6,707
Hispanic or Latino	ne	ne	ne	ne	253	360	401	617
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	52	55	54	50
Asian[b]	ne	ne	ne	ne	209	243	288	343
Black or African American	ne	ne	ne	ne	320	388	480	561
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	15	13	14	8
White	ne	ne	ne	ne	2,457	2,959	3,422	4,199
More than one race[b]	ne	ne	ne	ne	1	7	32	72
Unknown ethnicity/race	ne	ne	ne	ne	481	628	837	857
Temporary visa holders	ne	ne	ne	ne	696	906	1,029	1,237
Neuroscience[a]	na	na	na	na	1,584	2,012	2,356	2,798
U.S. citizens and permanent residents	na	na	na	na	1,253	1,634	1,949	2,332
Hispanic or Latino	na	na	na	na	81	100	118	166
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	7	11	12	10
Asian[b]	na	na	na	na	137	180	218	244
Black or African American	na	na	na	na	61	67	88	86
Native Hawaiian or Other Pacific Islander[b]	na	na	na	na	4	6	4	5
White	na	na	na	na	893	1,153	1,326	1,650
More than one race[b]	na	na	na	na	0	2	7	13
Unknown ethnicity/race	na	na	na	na	70	115	176	158
Temporary visa holders	na	na	na	na	331	378	407	466
Physical sciences	35,761	36,375	36,901	37,111	36,824	37,319	38,149	38,973
U.S. citizens and permanent residents	21,148	21,675	22,144	22,636	22,417	22,556	23,071	23,652
Hispanic or Latino	1,233	1,242	1,256	1,270	1,264	1,268	1,282	1,364
Not Hispanic or Latino								
American Indian or Alaska Native	78	82	118	105	103	111	119	102
Asian[b]	1,620	1,590	1,713	1,847	1,833	1,735	1,818	1,785
Black or African American	993	1,006	1,009	984	980	1,009	979	1,008
Native Hawaiian or Other Pacific Islander[b]	58	41	40	45	44	36	53	38
White	15,726	16,299	16,325	16,628	16,451	16,520	16,933	17,319
More than one race[b]	22	35	25	28	28	85	90	268
Unknown ethnicity/race	1,418	1,380	1,658	1,729	1,714	1,792	1,797	1,768
Temporary visa holders	14,613	14,700	14,757	14,475	14,407	14,763	15,078	15,321
Psychology[b]	54,126	57,282	57,653	60,284	59,617	58,991	56,184	53,419
U.S. citizens and permanent residents	50,932	54,228	54,802	57,171	56,574	55,912	53,246	50,332
Hispanic or Latino	4,791	5,101	5,222	5,526	5,506	5,543	5,003	4,859
Not Hispanic or Latino								
American Indian or Alaska Native	323	332	344	404	402	398	384	353
Asian[b]	2,355	2,417	2,500	2,771	2,741	2,687	2,562	2,429
Black or African American	4,990	5,238	5,089	5,140	5,100	5,358	5,393	5,442

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	88	134	112	125	128	123	97	122
White	33,580	34,359	35,045	36,976	36,519	35,530	34,342	32,043
More than one race[b]	67	70	75	73	73	173	387	658
Unknown ethnicity/race	4,738	6,577	6,415	6,156	6,105	6,100	5,078	4,426
Temporary visa holders	3,194	3,054	2,851	3,113	3,043	3,079	2,938	3,087
Social sciences	97,332	99,427	102,347	104,871	103,150	103,384	107,820	109,220
U.S. citizens and permanent residents	78,957	81,348	83,537	86,190	84,779	84,190	88,437	89,647
Hispanic or Latino	6,202	6,962	7,015	7,163	7,071	6,968	7,430	7,537
Not Hispanic or Latino								
American Indian or Alaska Native	647	719	732	755	744	898	847	782
Asian[b]	4,049	4,324	4,301	4,579	4,485	4,410	4,755	4,767
Black or African American	9,190	9,383	9,722	10,168	9,995	10,096	10,525	11,006
Native Hawaiian or Other Pacific Islander[b]	329	283	263	371	370	342	307	330
White	51,181	51,364	52,523	53,430	52,558	52,000	54,532	55,059
More than one race[b]	172	162	191	221	220	493	689	1,384
Unknown ethnicity/race	7,187	8,151	8,790	9,503	9,336	8,983	9,352	8,782
Temporary visa holders	18,375	18,079	18,810	18,681	18,371	19,194	19,383	19,573
Engineering	123,566	120,565	123,041	130,255	131,676	137,856	144,677	149,241
U.S. citizens and permanent residents	66,379	66,551	67,698	70,357	71,299	74,251	78,642	82,295
Hispanic or Latino	4,164	4,090	4,381	4,517	4,563	4,716	5,218	5,640
Not Hispanic or Latino								
American Indian or Alaska Native	273	273	290	286	290	346	344	329
Asian[b]	9,563	9,595	9,050	9,316	9,436	9,548	9,778	10,270
Black or African American	3,399	3,470	3,572	3,684	3,775	3,986	4,172	4,180
Native Hawaiian or Other Pacific Islander[b]	149	135	129	199	202	156	149	174
White	43,235	42,868	43,293	44,751	45,329	47,586	50,396	52,870
More than one race[b]	56	74	53	86	87	172	350	1,002
Unknown ethnicity/race	5,540	6,046	6,930	7,518	7,617	7,741	8,235	7,830
Temporary visa holders	57,187	54,014	55,343	59,898	60,377	63,605	66,035	66,946
Aerospace engineering	4,089	4,170	4,482	4,616	4,616	4,902	5,266	5,540
U.S. citizens and permanent residents	2,401	2,528	2,998	3,090	3,090	3,311	3,605	3,893
Hispanic or Latino	118	116	136	145	145	159	195	240
Not Hispanic or Latino								
American Indian or Alaska Native	16	13	10	13	13	18	16	11
Asian[b]	210	250	311	346	346	363	370	416
Black or African American	68	73	79	81	81	103	108	92
Native Hawaiian or Other Pacific Islander[b]	2	1	1	0	0	3	7	3
White	1,791	1,844	1,969	2,152	2,152	2,244	2,485	2,702
More than one race[b]	1	1	0	3	3	3	23	49
Unknown ethnicity/race	195	230	492	350	350	418	401	380
Temporary visa holders	1,688	1,642	1,484	1,526	1,526	1,591	1,661	1,647
Agricultural engineering	1,041	1,059	1,073	1,126	1,126	1,233	1,303	1,457
U.S. citizens and permanent residents	556	538	524	542	542	566	630	681
Hispanic or Latino	8	13	16	14	14	21	27	30
Not Hispanic or Latino								
American Indian or Alaska Native	1	3	5	2	2	2	1	4
Asian[b]	46	36	33	32	32	27	23	38
Black or African American	23	25	27	22	22	20	30	33
Native Hawaiian or Other Pacific Islander[b]	1	1	1	2	2	0	1	0
White	463	441	425	439	439	473	513	528
More than one race[b]	0	0	1	2	2	0	1	6
Unknown ethnicity/race	14	19	16	29	29	23	34	42
Temporary visa holders	485	521	549	584	584	667	673	776

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Architecture[a]	na	na	na	na	4,601	5,905	6,804	6,795
U.S. citizens and permanent residents	na	na	na	na	3,707	4,840	5,611	5,548
Hispanic or Latino	na	na	na	na	208	385	454	420
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	15	42	32	36
Asian[b]	na	na	na	na	223	291	320	361
Black or African American	na	na	na	na	219	282	300	277
Native Hawaiian or Other Pacific Islander[b]	na	na	na	na	5	8	5	8
White	na	na	na	na	2,730	3,417	3,968	3,928
More than one race[b]	na	na	na	na	1	12	32	95
Unknown ethnicity/race	na	na	na	na	306	403	500	423
Temporary visa holders	na	na	na	na	894	1,065	1,193	1,247
Biomedical engineering	5,807	6,067	6,482	6,881	6,904	7,339	7,904	8,497
U.S. citizens and permanent residents	3,675	3,921	4,298	4,524	4,541	4,772	5,237	5,803
Hispanic or Latino	180	192	237	242	242	226	301	325
Not Hispanic or Latino								
American Indian or Alaska Native	15	13	18	19	19	21	20	19
Asian[b]	725	781	863	939	940	919	1,101	1,185
Black or African American	191	192	204	206	206	224	245	240
Native Hawaiian or Other Pacific Islander[b]	17	14	14	12	12	20	15	17
White	2,314	2,424	2,626	2,646	2,662	2,932	3,142	3,526
More than one race[b]	0	5	9	8	8	14	43	77
Unknown ethnicity/race	233	300	327	452	452	416	370	414
Temporary visa holders	2,132	2,146	2,184	2,357	2,363	2,567	2,667	2,694
Chemical engineering	7,452	7,173	7,261	7,383	7,584	7,892	8,188	8,668
U.S. citizens and permanent residents	3,753	3,675	3,685	3,647	3,744	3,821	4,022	4,272
Hispanic or Latino	249	240	277	261	261	238	225	279
Not Hispanic or Latino								
American Indian or Alaska Native	27	24	20	16	16	15	14	18
Asian[b]	443	480	485	455	465	492	533	588
Black or African American	169	146	149	149	155	150	172	164
Native Hawaiian or Other Pacific Islander[b]	10	13	11	20	20	2	3	16
White	2,666	2,561	2,556	2,520	2,601	2,672	2,809	2,872
More than one race[b]	8	12	3	1	1	9	12	40
Unknown ethnicity/race	181	199	184	225	225	243	254	295
Temporary visa holders	3,699	3,498	3,576	3,736	3,840	4,071	4,166	4,396
Civil engineering[a]	18,561	18,114	17,802	19,867	16,071	16,931	18,638	19,559
U.S. citizens and permanent residents	11,436	11,415	11,421	13,051	9,972	10,477	11,750	12,482
Hispanic or Latino	898	896	967	1,068	892	796	915	1,091
Not Hispanic or Latino								
American Indian or Alaska Native	51	52	62	70	58	50	59	55
Asian[b]	977	982	936	1,029	851	921	1,109	1,244
Black or African American	453	456	508	603	461	475	528	594
Native Hawaiian or Other Pacific Islander[b]	20	24	21	25	23	28	27	42
White	8,270	8,139	7,971	9,115	6,807	7,265	7,884	8,245
More than one race[b]	2	6	7	6	6	24	51	270
Unknown ethnicity/race	765	860	949	1,135	874	918	1,177	941
Temporary visa holders	7,125	6,699	6,381	6,816	6,099	6,454	6,888	7,077
Electrical engineering	38,995	37,450	38,265	40,207	40,588	41,164	41,218	41,336
U.S. citizens and permanent residents	16,878	16,662	16,166	15,759	16,024	16,042	15,936	16,109
Hispanic or Latino	1,097	1,090	1,044	979	996	1,007	1,072	1,157
Not Hispanic or Latino								
American Indian or Alaska Native	54	54	46	47	48	61	54	48
Asian[b]	3,781	3,729	3,388	3,035	3,100	3,086	3,015	2,956
Black or African American	850	843	828	842	861	864	900	937

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	42	33	26	64	64	41	26	29
White	9,444	9,150	8,875	8,789	8,933	8,734	8,908	9,035
More than one race[b]	25	33	19	16	16	30	63	157
Unknown ethnicity/race	1,585	1,730	1,940	1,987	2,006	2,219	1,898	1,790
Temporary visa holders	22,117	20,788	22,099	24,448	24,564	25,122	25,282	25,227
Engineering science	2,198	1,951	2,046	1,843	1,806	2,099	2,168	2,071
U.S. citizens and permanent residents	1,187	1,096	1,170	1,024	989	1,216	1,229	1,185
Hispanic or Latino	45	43	46	35	32	63	69	65
Not Hispanic or Latino								
American Indian or Alaska Native	11	9	9	8	7	7	6	3
Asian[b]	162	143	156	153	141	142	134	146
Black or African American	38	36	44	28	28	42	51	44
Native Hawaiian or Other Pacific Islander[b]	1	0	3	2	2	3	0	0
White	865	793	830	719	709	827	821	784
More than one race[b]	1	3	3	1	1	3	5	24
Unknown ethnicity/race	64	69	79	78	69	129	143	119
Temporary visa holders	1,011	855	876	819	817	883	939	886
Industrial engineering	13,852	13,650	13,829	14,290	14,474	15,692	15,825	15,205
U.S. citizens and permanent residents	8,763	9,071	9,249	9,020	9,090	9,464	9,511	9,028
Hispanic or Latino	629	579	664	661	664	703	717	677
Not Hispanic or Latino								
American Indian or Alaska Native	48	51	55	46	47	51	61	43
Asian[b]	916	1,019	995	1,022	1,057	1,066	959	914
Black or African American	714	764	763	741	734	849	826	708
Native Hawaiian or Other Pacific Islander[b]	13	7	15	10	11	3	18	14
White	5,484	5,658	5,586	5,300	5,293	5,543	5,305	5,011
More than one race[b]	9	4	0	2	2	47	41	63
Unknown ethnicity/race	950	989	1,171	1,238	1,282	1,202	1,584	1,598
Temporary visa holders	5,089	4,579	4,580	5,270	5,384	6,228	6,314	6,177
Mechanical engineering	17,852	17,373	17,919	18,366	18,347	19,585	21,243	22,509
U.S. citizens and permanent residents	9,724	9,719	10,205	10,495	10,481	11,075	11,893	12,986
Hispanic or Latino	566	575	621	653	656	685	749	827
Not Hispanic or Latino								
American Indian or Alaska Native	24	28	32	33	33	37	43	46
Asian[b]	947	945	914	1,224	1,225	1,258	1,197	1,328
Black or African American	369	411	419	409	408	425	431	456
Native Hawaiian or Other Pacific Islander[b]	26	17	26	18	18	22	28	24
White	6,998	6,898	7,337	7,232	7,213	7,591	8,334	9,135
More than one race[b]	6	5	4	41	41	12	48	129
Unknown ethnicity/race	788	840	852	885	887	1,045	1,063	1,041
Temporary visa holders	8,128	7,654	7,714	7,871	7,866	8,510	9,350	9,523
Metallurgical/materials engineering	5,059	5,160	5,268	5,365	5,314	5,539	5,863	6,274
U.S. citizens and permanent residents	2,501	2,518	2,690	2,739	2,719	2,796	2,949	3,197
Hispanic or Latino	99	106	98	116	117	118	145	170
Not Hispanic or Latino								
American Indian or Alaska Native	6	5	8	9	9	13	11	12
Asian[b]	337	307	335	331	328	350	361	416
Black or African American	105	102	129	131	127	126	112	130
Native Hawaiian or Other Pacific Islander[b]	9	8	2	10	10	9	1	2
White	1,815	1,859	1,926	1,924	1,900	1,988	2,119	2,252
More than one race[b]	2	2	3	3	3	8	15	31
Unknown ethnicity/race	128	129	189	215	225	184	185	184
Temporary visa holders	2,558	2,642	2,578	2,626	2,595	2,743	2,914	3,077

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Mining engineering	308	279	244	307	222	290	312	419
U.S. citizens and permanent residents	189	161	129	183	130	165	197	197
Hispanic or Latino	10	9	5	5	4	9	10	5
Not Hispanic or Latino								
American Indian or Alaska Native	1	0	1	0	0	3	1	2
Asian[b]	5	6	1	10	8	7	9	4
Black or African American	5	3	3	7	0	4	8	12
Native Hawaiian or Other Pacific Islander[b]	1	0	0	0	0	0	1	0
White	157	121	108	151	111	133	156	160
More than one race[b]	0	0	0	0	0	0	2	2
Unknown ethnicity/race	10	22	11	10	7	9	10	12
Temporary visa holders	119	118	115	124	92	125	115	222
Nuclear engineering	971	1,013	1,099	1,208	1,180	1,201	1,243	1,459
U.S. citizens and permanent residents	616	674	780	924	904	933	958	1,163
Hispanic or Latino	28	38	60	49	48	47	42	53
Not Hispanic or Latino								
American Indian or Alaska Native	3	3	2	2	2	4	4	4
Asian[b]	42	45	45	47	47	54	57	68
Black or African American	20	21	18	22	22	26	22	23
Native Hawaiian or Other Pacific Islander[b]	0	2	0	1	1	6	1	2
White	492	534	603	699	681	734	763	912
More than one race[b]	0	0	0	0	0	1	0	13
Unknown ethnicity/race	31	31	52	104	103	61	69	88
Temporary visa holders	355	339	319	284	276	268	285	296
Petroleum engineering	845	808	813	1,014	1,014	1,009	1,190	1,295
U.S. citizens and permanent residents	194	192	195	258	258	217	252	293
Hispanic or Latino	15	17	22	32	32	18	20	23
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	1	1	0
Asian[b]	24	21	15	17	17	20	25	42
Black or African American	21	31	24	43	43	29	23	29
Native Hawaiian or Other Pacific Islander[b]	0	0	0	0	0	0	0	0
White	123	114	117	150	150	138	176	184
More than one race[b]	1	0	0	0	0	0	0	2
Unknown ethnicity/race	10	9	17	16	16	11	7	13
Temporary visa holders	651	616	618	756	756	792	938	1,002
Engineering, nec	6,536	6,298	6,458	7,782	7,829	7,075	7,512	8,157
U.S. citizens and permanent residents	4,506	4,381	4,188	5,101	5,108	4,556	4,862	5,458
Hispanic or Latino	222	176	188	257	252	241	277	278
Not Hispanic or Latino								
American Indian or Alaska Native	16	18	22	21	21	21	21	28
Asian[b]	948	851	573	676	656	552	565	564
Black or African American	373	367	377	400	408	367	416	441
Native Hawaiian or Other Pacific Islander[b]	7	15	9	35	34	11	16	17
White	2,353	2,332	2,364	2,915	2,948	2,895	3,013	3,596
More than one race[b]	1	3	4	3	3	9	14	44
Unknown ethnicity/race	586	619	651	794	786	460	540	490
Temporary visa holders	2,030	1,917	2,270	2,681	2,721	2,519	2,650	2,699
Health[a,c]	98,590	103,951	111,356	105,448	103,300	102,214	85,960	76,120
U.S. citizens and permanent residents	91,196	96,217	103,022	97,109	95,203	93,669	77,306	68,089
Hispanic or Latino	5,819	5,922	6,370	6,078	5,961	5,550	5,071	4,766
Not Hispanic or Latino								
American Indian or Alaska Native	506	527	577	609	600	668	493	384
Asian[b]	6,514	6,885	7,403	6,790	6,600	6,223	5,556	5,043
Black or African American	7,872	8,299	9,202	8,369	8,286	8,367	7,376	7,105

TABLE 13. Graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	576	305	281	327	285	305	225	266
White	63,724	66,500	71,282	66,874	65,797	64,366	52,234	44,737
More than one race[b]	76	101	107	119	116	237	345	827
Unknown ethnicity/race	6,109	7,678	7,800	7,943	7,558	7,953	6,006	4,961
Temporary visa holders	7,394	7,734	8,334	8,339	8,097	8,545	8,654	8,031

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	277,749	286,935	297,825	299,671	307,490	311,179	303,120	297,171
U.S. citizens and permanent residents	227,554	237,029	246,041	245,526	252,309	252,329	242,387	235,235
Hispanic or Latino	16,067	17,035	17,829	18,106	18,527	18,379	18,140	18,364
Not Hispanic or Latino								
American Indian or Alaska Native	1,396	1,488	1,593	1,651	1,713	1,946	1,749	1,647
Asian[b]	17,849	18,346	18,663	18,631	18,885	18,536	18,518	18,014
Black or African American	21,339	22,429	23,416	23,274	24,013	24,595	24,539	24,844
Native Hawaiian or Other Pacific Islander[b]	1,021	766	697	856	863	799	752	754
White	152,593	156,051	162,059	160,001	164,684	163,522	155,553	149,137
More than one race[b]	325	351	370	372	375	900	1,535	3,197
Unknown ethnicity/race	16,964	20,563	21,414	22,635	23,249	23,652	21,601	19,278
Temporary visa holders	50,195	49,906	51,784	54,145	55,181	58,850	60,733	61,936
Science and engineering	201,865	206,308	211,106	218,295	227,273	231,997	237,749	240,481
U.S. citizens and permanent residents	155,725	160,613	163,820	168,644	176,449	177,792	181,700	182,995
Hispanic or Latino	11,621	12,468	12,839	13,361	13,848	14,025	14,235	14,813
Not Hispanic or Latino								
American Indian or Alaska Native	1,001	1,050	1,133	1,167	1,235	1,431	1,370	1,351
Asian[b]	13,176	13,344	13,289	13,754	14,118	13,954	14,504	14,386
Black or African American	14,847	15,623	15,884	16,371	17,162	17,706	18,519	19,160
Native Hawaiian or Other Pacific Islander[b]	529	541	477	622	644	573	578	554
White	101,912	102,589	104,515	106,672	111,932	112,046	114,287	114,557
More than one race[b]	266	280	290	275	281	709	1,267	2,578
Unknown ethnicity/race	12,373	14,718	15,393	16,422	17,229	17,348	16,940	15,596
Temporary visa holders	46,140	45,695	47,286	49,651	50,824	54,205	56,049	57,486
Science	174,593	179,413	183,162	188,321	196,801	200,460	204,431	206,028
U.S. citizens and permanent residents	140,480	145,333	148,354	152,294	159,749	160,796	163,806	164,531
Hispanic or Latino	10,522	11,371	11,644	12,119	12,592	12,775	12,884	13,352
Not Hispanic or Latino								
American Indian or Alaska Native	926	983	1,061	1,105	1,170	1,334	1,292	1,266
Asian[b]	10,260	10,389	10,736	11,164	11,484	11,379	11,863	11,648
Black or African American	13,718	14,523	14,755	15,160	15,908	16,423	17,204	17,860
Native Hawaiian or Other Pacific Islander[b]	485	495	434	546	568	525	536	507
White	93,054	93,902	95,514	97,161	102,213	101,981	103,682	103,553
More than one race[b]	253	266	270	261	266	663	1,169	2,332
Unknown ethnicity/race	11,262	13,404	13,940	14,778	15,548	15,716	15,176	14,013
Temporary visa holders	34,113	34,080	34,808	36,027	37,052	39,664	40,625	41,497
Agricultural sciences	6,258	6,202	6,299	6,444	6,627	6,891	7,485	7,819
U.S. citizens and permanent residents	5,167	5,112	5,157	5,258	5,357	5,488	5,965	6,253
Hispanic or Latino	257	263	277	301	316	322	373	412
Not Hispanic or Latino								
American Indian or Alaska Native	47	45	46	48	48	77	77	87
Asian[b]	179	144	168	171	176	214	204	199
Black or African American	241	245	301	283	282	289	244	277
Native Hawaiian or Other Pacific Islander[b]	14	14	5	7	7	15	19	20
White	4,191	4,146	4,070	4,136	4,220	4,184	4,602	4,835
More than one race[b]	4	9	14	7	7	34	46	71
Unknown ethnicity/race	234	246	276	305	301	353	400	352
Temporary visa holders	1,091	1,090	1,142	1,186	1,270	1,403	1,520	1,566
Biological sciences	37,289	38,521	39,369	40,651	40,754	41,334	41,818	42,571
U.S. citizens and permanent residents	28,741	29,603	30,304	31,494	31,725	31,762	32,283	33,041
Hispanic or Latino	1,741	1,826	1,926	2,074	2,070	2,093	2,254	2,447
Not Hispanic or Latino								
American Indian or Alaska Native	157	164	182	166	167	187	194	213
Asian[b]	2,873	2,978	3,216	3,350	3,387	3,264	3,438	3,546
Black or African American	2,033	2,063	2,123	2,261	2,271	2,301	2,456	2,474

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	152	148	139	157	166	162	170	129
White	20,022	20,415	20,772	21,115	21,136	21,173	21,086	21,473
More than one race[b]	51	60	44	39	42	103	155	395
Unknown ethnicity/race	1,712	1,949	1,902	2,332	2,486	2,479	2,530	2,364
Temporary visa holders	8,548	8,918	9,065	9,157	9,029	9,572	9,535	9,530
Communication[a]	ne	ne	ne	ne	4,647	5,381	6,029	6,353
U.S. citizens and permanent residents	ne	ne	ne	ne	3,927	4,517	4,991	5,307
Hispanic or Latino	ne	ne	ne	ne	270	302	295	367
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	19	35	36	45
Asian[b]	ne	ne	ne	ne	162	191	217	221
Black or African American	ne	ne	ne	ne	375	436	459	541
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	3	4	20	12
White	ne	ne	ne	ne	2,733	3,060	3,490	3,662
More than one race[b]	ne	ne	ne	ne	1	10	57	81
Unknown ethnicity/race	ne	ne	ne	ne	364	479	417	378
Temporary visa holders	ne	ne	ne	ne	720	864	1,038	1,046
Computer sciences	13,277	12,045	12,062	12,206	12,017	12,545	13,053	12,807
U.S. citizens and permanent residents	7,362	6,776	6,741	6,169	6,020	6,015	6,300	6,048
Hispanic or Latino	283	272	271	286	282	287	293	334
Not Hispanic or Latino								
American Indian or Alaska Native	30	33	27	16	15	34	28	31
Asian[b]	1,624	1,386	1,283	1,145	1,109	1,087	1,170	980
Black or African American	708	714	722	704	695	708	799	822
Native Hawaiian or Other Pacific Islander[b]	27	17	17	9	8	16	16	13
White	3,849	3,621	3,581	3,091	3,012	3,064	3,192	3,133
More than one race[b]	6	6	4	1	1	9	34	81
Unknown ethnicity/race	835	727	836	917	898	810	768	654
Temporary visa holders	5,915	5,269	5,321	6,037	5,997	6,530	6,753	6,759
Earth, atmospheric, and ocean sciences	6,932	6,895	7,004	6,951	6,650	6,621	6,815	7,200
U.S. citizens and permanent residents	5,854	5,796	5,898	5,853	5,593	5,477	5,717	6,015
Hispanic or Latino	302	281	311	303	283	280	308	336
Not Hispanic or Latino								
American Indian or Alaska Native	27	31	26	35	31	35	29	46
Asian[b]	213	191	200	210	187	192	212	215
Black or African American	141	152	145	155	151	161	158	158
Native Hawaiian or Other Pacific Islander[b]	14	22	16	10	9	8	16	13
White	4,821	4,798	4,830	4,748	4,564	4,383	4,491	4,731
More than one race[b]	12	10	12	8	8	20	32	83
Unknown ethnicity/race	324	311	358	384	360	398	471	433
Temporary visa holders	1,078	1,099	1,106	1,098	1,057	1,144	1,098	1,185
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	2,327	2,958	3,203	3,461
U.S. citizens and permanent residents	ne	ne	ne	ne	2,127	2,687	2,925	3,157
Hispanic or Latino	ne	ne	ne	ne	71	112	129	166
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	17	14	18	20
Asian[b]	ne	ne	ne	ne	79	124	120	123
Black or African American	ne	ne	ne	ne	272	345	461	511
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	0	0	0	1
White	ne	ne	ne	ne	1,573	1,866	2,024	2,099
More than one race[b]	ne	ne	ne	ne	2	5	3	29
Unknown ethnicity/race	ne	ne	ne	ne	113	221	170	208
Temporary visa holders	ne	ne	ne	ne	200	271	278	304

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Mathematical sciences	7,497	7,437	7,693	7,781	7,678	7,751	7,979	8,127
U.S. citizens and permanent residents	4,792	4,740	4,857	4,969	4,930	4,723	4,860	4,937
Hispanic or Latino	230	215	246	269	268	243	265	277
Not Hispanic or Latino								
American Indian or Alaska Native	13	15	22	14	14	18	16	19
Asian[b]	571	597	611	613	605	571	613	617
Black or African American	332	351	347	331	329	311	321	319
Native Hawaiian or Other Pacific Islander[b]	13	14	18	18	18	28	32	16
White	3,293	3,178	3,260	3,276	3,252	3,129	3,149	3,125
More than one race[b]	7	9	6	4	4	8	57	97
Unknown ethnicity/race	333	361	347	444	440	415	407	467
Temporary visa holders	2,705	2,697	2,836	2,812	2,748	3,028	3,119	3,190
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	2,560	3,234	3,809	4,493
U.S. citizens and permanent residents	ne	ne	ne	ne	2,211	2,781	3,283	3,877
Hispanic or Latino	ne	ne	ne	ne	169	230	253	390
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	39	41	38	29
Asian[b]	ne	ne	ne	ne	115	144	169	200
Black or African American	ne	ne	ne	ne	219	264	326	381
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	8	8	10	8
White	ne	ne	ne	ne	1,378	1,711	1,954	2,329
More than one race[b]	ne	ne	ne	ne	0	3	25	51
Unknown ethnicity/race	ne	ne	ne	ne	283	380	508	489
Temporary visa holders	ne	ne	ne	ne	349	453	526	616
Neuroscience[a]	na	na	na	na	863	1,097	1,264	1,474
U.S. citizens and permanent residents	na	na	na	na	687	897	1,038	1,225
Hispanic or Latino	na	na	na	na	49	62	64	97
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	4	4	3	4
Asian[b]	na	na	na	na	78	106	112	128
Black or African American	na	na	na	na	35	36	52	51
Native Hawaiian or Other Pacific Islander[b]	na	na	na	na	2	3	1	2
White	na	na	na	na	482	625	714	857
More than one race[b]	na	na	na	na	0	2	1	7
Unknown ethnicity/race	na	na	na	na	37	59	91	79
Temporary visa holders	na	na	na	na	176	200	226	249
Physical sciences	11,300	11,726	12,005	12,253	12,109	12,333	12,691	12,826
U.S. citizens and permanent residents	6,757	7,098	7,370	7,605	7,489	7,448	7,671	7,721
Hispanic or Latino	489	490	490	509	503	494	495	506
Not Hispanic or Latino								
American Indian or Alaska Native	28	34	49	49	48	50	48	37
Asian[b]	637	652	711	803	792	726	768	738
Black or African American	453	482	506	501	498	491	493	514
Native Hawaiian or Other Pacific Islander[b]	22	18	20	21	21	18	23	16
White	4,718	5,002	5,092	5,175	5,085	5,102	5,252	5,267
More than one race[b]	10	16	10	13	13	25	32	98
Unknown ethnicity/race	400	404	492	534	529	542	560	545
Temporary visa holders	4,543	4,628	4,635	4,648	4,620	4,885	5,020	5,105
Psychology[c]	40,156	43,319	43,703	45,594	45,116	44,615	42,536	40,238
U.S. citizens and permanent residents	38,210	41,172	41,648	43,328	42,890	42,389	40,409	37,958
Hispanic or Latino	3,659	3,927	4,030	4,216	4,204	4,271	3,852	3,720
Not Hispanic or Latino								
American Indian or Alaska Native	235	241	261	309	309	298	287	266
Asian[b]	1,818	1,888	1,949	2,147	2,128	2,100	2,000	1,868
Black or African American	3,752	4,291	4,164	4,198	4,165	4,341	4,440	4,478

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	62	102	88	95	98	79	66	92
White	25,020	25,614	26,132	27,588	27,237	26,497	25,646	23,716
More than one race[b]	52	56	52	55	55	137	303	506
Unknown ethnicity/race	3,612	5,053	4,972	4,720	4,694	4,666	3,815	3,312
Temporary visa holders	1,946	2,147	2,055	2,266	2,226	2,226	2,127	2,280
Social sciences	51,884	53,268	55,027	56,441	55,453	55,700	57,749	58,659
U.S. citizens and permanent residents	43,597	45,036	46,379	47,618	46,793	46,612	48,364	48,992
Hispanic or Latino	3,561	4,097	4,093	4,161	4,107	4,079	4,303	4,300
Not Hispanic or Latino								
American Indian or Alaska Native	389	420	448	468	459	541	518	469
Asian[b]	2,345	2,553	2,598	2,725	2,666	2,660	2,840	2,813
Black or African American	6,058	6,225	6,447	6,727	6,616	6,740	6,995	7,334
Native Hawaiian or Other Pacific Islander[b]	181	160	131	229	228	184	163	185
White	27,140	27,128	27,777	28,032	27,541	27,187	28,082	28,326
More than one race[b]	111	100	128	134	133	307	424	833
Unknown ethnicity/race	3,812	4,353	4,757	5,142	5,043	4,914	5,039	4,732
Temporary visa holders	8,287	8,232	8,648	8,823	8,660	9,088	9,385	9,667
Engineering	27,272	26,895	27,944	29,974	30,472	31,537	33,318	34,453
U.S. citizens and permanent residents	15,245	15,280	15,466	16,350	16,700	16,996	17,894	18,464
Hispanic or Latino	1,099	1,097	1,195	1,242	1,256	1,250	1,351	1,461
Not Hispanic or Latino								
American Indian or Alaska Native	75	67	72	62	65	97	78	85
Asian[b]	2,916	2,955	2,553	2,590	2,634	2,575	2,641	2,738
Black or African American	1,129	1,100	1,129	1,211	1,254	1,283	1,315	1,300
Native Hawaiian or Other Pacific Islander[b]	44	46	43	76	76	48	42	47
White	8,858	8,687	9,001	9,511	9,719	10,065	10,605	11,004
More than one race[b]	13	14	20	14	15	46	98	246
Unknown ethnicity/race	1,111	1,314	1,453	1,644	1,681	1,632	1,764	1,583
Temporary visa holders	12,027	11,615	12,478	13,624	13,772	14,541	15,424	15,989
Aerospace engineering	600	607	709	700	700	722	734	784
U.S. citizens and permanent residents	377	400	493	486	486	487	497	551
Hispanic or Latino	22	16	24	22	22	25	25	36
Not Hispanic or Latino								
American Indian or Alaska Native	3	2	1	4	4	7	5	4
Asian[b]	50	62	61	62	62	66	57	56
Black or African American	14	15	18	21	21	24	20	17
Native Hawaiian or Other Pacific Islander[b]	1	0	1	0	0	0	1	2
White	256	272	326	338	338	296	332	375
More than one race[b]	0	0	0	1	1	1	5	12
Unknown ethnicity/race	31	33	62	38	38	68	52	49
Temporary visa holders	223	207	216	214	214	235	237	233
Agricultural engineering	311	323	350	366	366	398	437	509
U.S. citizens and permanent residents	183	177	183	172	172	166	198	206
Hispanic or Latino	4	10	12	5	5	6	9	10
Not Hispanic or Latino								
American Indian or Alaska Native	0	1	3	1	1	1	1	3
Asian[b]	16	13	10	12	12	10	11	16
Black or African American	14	12	13	10	10	9	12	16
Native Hawaiian or Other Pacific Islander[b]	0	1	1	2	2	0	0	0
White	143	136	140	130	130	132	152	145
More than one race[b]	0	0	1	2	2	0	1	4
Unknown ethnicity/race	6	4	3	10	10	8	12	12
Temporary visa holders	128	146	167	194	194	232	239	303

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Architecture[a]	na	na	na	na	1,974	2,612	2,997	3,044
U.S. citizens and permanent residents	na	na	na	na	1,567	2,085	2,368	2,396
Hispanic or Latino	na	na	na	na	86	170	191	182
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	3	26	13	15
Asian[b]	na	na	na	na	118	157	176	206
Black or African American	na	na	na	na	94	126	123	121
Native Hawaiian or Other Pacific Islander[b]	na	na	na	na	2	4	1	3
White	na	na	na	na	1,117	1,403	1,625	1,641
More than one race[b]	na	na	na	na	1	7	11	43
Unknown ethnicity/race	na	na	na	na	146	192	228	185
Temporary visa holders	na	na	na	na	407	527	629	648
Biomedical engineering	2,183	2,297	2,486	2,610	2,621	2,761	2,979	3,133
U.S. citizens and permanent residents	1,435	1,556	1,702	1,775	1,784	1,805	1,983	2,102
Hispanic or Latino	64	75	97	86	86	91	110	120
Not Hispanic or Latino								
American Indian or Alaska Native	5	6	5	5	5	7	7	7
Asian[b]	301	337	366	394	394	371	422	437
Black or African American	113	103	107	117	117	118	139	129
Native Hawaiian or Other Pacific Islander[b]	10	7	7	7	7	10	6	5
White	868	911	991	991	1,000	1,058	1,141	1,227
More than one race[b]	0	0	5	3	3	5	19	28
Unknown ethnicity/race	74	117	124	172	172	145	139	149
Temporary visa holders	748	741	784	835	837	956	996	1,031
Chemical engineering	2,106	2,079	2,159	2,235	2,266	2,409	2,616	2,722
U.S. citizens and permanent residents	1,122	1,109	1,117	1,105	1,129	1,143	1,206	1,230
Hispanic or Latino	117	110	123	107	106	90	86	104
Not Hispanic or Latino								
American Indian or Alaska Native	13	7	5	2	2	3	2	2
Asian[b]	172	201	198	190	195	203	215	219
Black or African American	74	60	56	50	52	51	66	65
Native Hawaiian or Other Pacific Islander[b]	5	5	8	9	9	2	1	4
White	676	664	671	675	692	716	760	753
More than one race[b]	4	1	2	1	1	8	7	10
Unknown ethnicity/race	61	61	54	71	72	70	69	73
Temporary visa holders	984	970	1,042	1,130	1,137	1,266	1,410	1,492
Civil engineering[a]	5,441	5,405	5,423	6,348	4,736	4,765	5,301	5,571
U.S. citizens and permanent residents	3,562	3,598	3,659	4,402	3,117	3,069	3,423	3,554
Hispanic or Latino	282	293	331	404	327	263	302	370
Not Hispanic or Latino								
American Indian or Alaska Native	16	14	19	16	15	16	18	22
Asian[b]	371	391	361	395	303	325	382	404
Black or African American	162	161	181	231	178	168	205	206
Native Hawaiian or Other Pacific Islander[b]	4	9	8	11	9	11	8	14
White	2,498	2,467	2,460	2,961	2,021	2,019	2,155	2,235
More than one race[b]	1	3	3	2	2	4	15	59
Unknown ethnicity/race	228	260	296	382	262	263	338	244
Temporary visa holders	1,879	1,807	1,764	1,946	1,619	1,696	1,878	2,017
Electrical engineering	7,201	6,788	7,026	7,367	7,439	7,340	7,174	7,193
U.S. citizens and permanent residents	2,588	2,546	2,315	2,182	2,241	2,119	2,014	2,007
Hispanic or Latino	184	208	179	161	164	159	153	151
Not Hispanic or Latino								
American Indian or Alaska Native	11	7	4	2	3	4	6	4
Asian[b]	972	925	709	597	615	568	548	548
Black or African American	194	189	180	180	183	172	172	174

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	8	5	5	9	9	3	8	6
White	968	907	906	910	939	872	850	851
More than one race[b]	3	6	4	2	2	6	8	21
Unknown ethnicity/race	248	299	328	321	326	335	269	252
Temporary visa holders	4,613	4,242	4,711	5,185	5,198	5,221	5,160	5,186
Engineering science	465	419	451	412	409	471	478	438
U.S. citizens and permanent residents	254	235	250	211	208	244	237	209
Hispanic or Latino	6	7	3	5	6	12	16	12
Not Hispanic or Latino								
American Indian or Alaska Native	5	4	3	3	3	3	1	0
Asian[b]	43	41	45	41	37	31	27	31
Black or African American	12	10	11	7	7	12	12	9
Native Hawaiian or Other Pacific Islander[b]	0	0	0	2	2	1	0	0
White	173	152	168	134	135	163	148	132
More than one race[b]	0	1	1	0	0	1	0	2
Unknown ethnicity/race	15	20	19	19	18	21	33	23
Temporary visa holders	211	184	201	201	201	227	241	229
Industrial engineering	3,230	3,296	3,466	3,520	3,544	3,714	3,800	3,684
U.S. citizens and permanent residents	2,233	2,228	2,326	2,288	2,291	2,253	2,182	2,029
Hispanic or Latino	211	187	214	210	212	201	221	190
Not Hispanic or Latino								
American Indian or Alaska Native	11	16	17	14	15	18	14	8
Asian[b]	272	289	292	305	311	287	254	253
Black or African American	273	282	296	290	291	304	283	231
Native Hawaiian or Other Pacific Islander[b]	1	2	3	2	2	2	5	3
White	1,261	1,218	1,248	1,180	1,171	1,183	1,087	1,033
More than one race[b]	3	1	0	1	1	8	11	16
Unknown ethnicity/race	201	233	256	286	288	250	307	295
Temporary visa holders	997	1,068	1,140	1,232	1,253	1,461	1,618	1,655
Mechanical engineering	2,456	2,408	2,485	2,615	2,614	2,749	2,990	3,186
U.S. citizens and permanent residents	1,435	1,406	1,498	1,597	1,596	1,647	1,709	1,833
Hispanic or Latino	114	108	117	129	129	118	121	132
Not Hispanic or Latino								
American Indian or Alaska Native	6	7	4	6	6	6	5	7
Asian[b]	188	202	191	256	256	257	237	251
Black or African American	91	90	75	93	93	99	94	109
Native Hawaiian or Other Pacific Islander[b]	7	8	5	6	6	4	7	5
White	924	862	970	967	966	1,010	1,086	1,160
More than one race[b]	1	0	1	0	0	0	11	25
Unknown ethnicity/race	104	129	135	140	140	153	148	144
Temporary visa holders	1,021	1,002	987	1,018	1,018	1,102	1,281	1,353
Metallurgical/materials engineering	1,321	1,348	1,390	1,460	1,473	1,533	1,589	1,754
U.S. citizens and permanent residents	690	688	731	766	769	775	783	880
Hispanic or Latino	31	32	34	38	40	44	42	55
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	4	3	3	3	3	5
Asian[b]	90	91	97	120	119	137	136	143
Black or African American	48	49	61	59	58	59	48	57
Native Hawaiian or Other Pacific Islander[b]	6	5	2	6	6	5	0	0
White	489	482	483	493	495	497	500	570
More than one race[b]	1	1	1	1	1	4	8	11
Unknown ethnicity/race	25	28	49	46	47	26	46	39
Temporary visa holders	631	660	659	694	704	758	806	874

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Mining engineering	42	39	43	51	37	49	55	77
U.S. citizens and permanent residents	33	30	27	29	22	24	31	39
Hispanic or Latino	5	4	0	1	0	0	2	2
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian[b]	1	2	0	0	0	3	2	0
Black or African American	0	0	0	1	0	2	3	4
Native Hawaiian or Other Pacific Islander[b]	0	0	0	0	0	0	0	0
White	25	22	26	26	22	19	23	30
More than one race[b]	0	0	0	0	0	0	0	1
Unknown ethnicity/race	2	2	1	1	0	0	1	2
Temporary visa holders	9	9	16	22	15	25	24	38
Nuclear engineering	196	211	214	226	221	214	198	228
U.S. citizens and permanent residents	123	143	146	157	153	165	148	181
Hispanic or Latino	7	10	7	9	9	10	5	13
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian[b]	14	15	12	7	7	11	14	16
Black or African American	12	13	8	11	11	12	10	9
Native Hawaiian or Other Pacific Islander[b]	0	1	0	0	0	2	0	1
White	84	96	110	113	109	120	108	126
More than one race[b]	0	0	0	0	0	0	0	3
Unknown ethnicity/race	6	8	9	17	17	10	11	13
Temporary visa holders	73	68	68	69	68	49	50	47
Petroleum engineering	134	121	135	183	183	191	209	235
U.S. citizens and permanent residents	33	28	34	37	37	40	45	50
Hispanic or Latino	6	6	7	8	8	4	5	7
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian[b]	7	2	2	2	2	4	3	4
Black or African American	4	4	3	7	7	6	6	6
Native Hawaiian or Other Pacific Islander[b]	0	0	0	0	0	0	0	0
White	14	14	19	18	18	25	30	31
More than one race[b]	0	0	0	0	0	0	0	1
Unknown ethnicity/race	2	2	3	2	2	1	1	1
Temporary visa holders	101	93	101	146	146	151	164	185
Engineering, nec	1,586	1,554	1,607	1,881	1,889	1,609	1,761	1,895
U.S. citizens and permanent residents	1,177	1,136	985	1,143	1,128	974	1,070	1,197
Hispanic or Latino	46	31	47	57	56	57	63	77
Not Hispanic or Latino								
American Indian or Alaska Native	5	3	7	6	5	3	3	8
Asian[b]	419	384	209	209	203	145	157	154
Black or African American	118	112	120	134	132	121	122	147
Native Hawaiian or Other Pacific Islander[b]	2	3	3	22	22	4	5	4
White	479	484	483	575	566	552	608	695
More than one race[b]	0	1	2	1	1	2	2	10
Unknown ethnicity/race	108	118	114	139	143	90	110	102
Temporary visa holders	409	418	622	738	761	635	691	698
Health[a,c]	75,884	80,627	86,719	81,376	80,217	79,182	65,371	56,690
U.S. citizens and permanent residents	71,829	76,416	82,221	76,882	75,860	74,537	60,687	52,240
Hispanic or Latino	4,446	4,567	4,990	4,745	4,679	4,354	3,905	3,551
Not Hispanic or Latino								
American Indian or Alaska Native	395	438	460	484	478	515	379	296
Asian[b]	4,673	5,002	5,374	4,877	4,767	4,582	4,014	3,628
Black or African American	6,492	6,806	7,532	6,903	6,851	6,889	6,020	5,684

TABLE 14. Female graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	492	225	220	234	219	226	174	200
White	50,681	53,462	57,544	53,329	52,752	51,476	41,266	34,580
More than one race[b]	59	71	80	97	94	191	268	619
Unknown ethnicity/race	4,591	5,845	6,021	6,213	6,020	6,304	4,661	3,682
Temporary visa holders	4,055	4,211	4,498	4,494	4,357	4,645	4,684	4,450

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	402,573	406,620	419,015	430,860	437,365	449,613	456,115	461,185
U.S. citizens and permanent residents	273,236	279,275	287,684	294,556	299,716	304,912	307,192	309,475
Hispanic or Latino	18,009	18,707	19,441	19,991	20,264	20,310	21,195	22,068
Not Hispanic or Latino								
American Indian or Alaska Native	1,560	1,600	1,778	1,834	1,874	2,140	2,028	1,933
Asian[b]	23,520	23,679	24,426	25,192	25,395	24,570	25,492	25,954
Black or African American	18,500	18,740	19,936	19,625	20,078	21,903	22,362	22,611
Native Hawaiian or Other Pacific Islander[b]	921	891	815	988	996	955	896	859
White	190,541	192,546	197,195	200,044	203,760	206,023	206,533	207,055
More than one race[b]	422	495	507	467	470	975	1,799	4,239
Unknown ethnicity/race	19,763	22,617	23,586	26,415	26,879	28,036	26,887	24,756
Temporary visa holders	129,337	127,345	131,331	136,304	137,649	144,701	148,923	151,710
Science and engineering	340,529	341,742	349,802	362,976	371,542	383,560	398,498	409,107
U.S. citizens and permanent residents	217,345	220,842	225,338	233,343	240,319	245,691	256,503	263,871
Hispanic or Latino	14,231	14,916	15,381	15,994	16,378	16,622	17,755	18,870
Not Hispanic or Latino								
American Indian or Alaska Native	1,252	1,293	1,443	1,445	1,492	1,733	1,716	1,690
Asian[b]	19,072	18,952	19,360	20,481	20,851	20,383	21,714	22,436
Black or African American	14,022	14,186	14,858	15,003	15,528	16,839	17,779	18,194
Native Hawaiian or Other Pacific Islander[b]	717	734	639	772	813	764	765	696
White	151,506	152,110	153,827	157,463	162,261	165,333	172,067	176,626
More than one race[b]	374	412	417	398	403	816	1,557	3,639
Unknown ethnicity/race	16,171	18,239	19,413	21,787	22,593	23,201	23,150	21,720
Temporary visa holders	123,184	120,900	124,464	129,633	131,223	137,869	141,995	145,236
Science	253,574	257,283	261,984	269,821	277,229	285,305	293,561	299,315
U.S. citizens and permanent residents	178,463	181,990	185,004	191,167	197,473	201,142	207,858	211,598
Hispanic or Latino	11,825	12,512	12,855	13,352	13,705	13,930	14,653	15,344
Not Hispanic or Latino								
American Indian or Alaska Native	1,097	1,134	1,257	1,267	1,310	1,520	1,507	1,483
Asian[b]	13,636	13,663	14,023	14,780	15,092	14,561	15,565	15,681
Black or African American	12,062	12,217	12,718	12,834	13,308	14,556	15,407	15,725
Native Hawaiian or Other Pacific Islander[b]	633	653	567	649	687	665	675	594
White	125,402	126,329	127,836	130,378	134,711	136,236	140,148	142,596
More than one race[b]	350	367	374	360	364	730	1,294	2,866
Unknown ethnicity/race	13,458	15,115	15,374	17,547	18,296	18,944	18,609	17,309
Temporary visa holders	75,111	75,293	76,980	78,654	79,756	84,163	85,703	87,717
Agricultural sciences	10,040	9,710	9,478	9,634	9,822	10,132	10,823	11,087
U.S. citizens and permanent residents	7,613	7,304	7,097	7,188	7,230	7,413	8,032	8,260
Hispanic or Latino	408	374	397	426	443	435	535	522
Not Hispanic or Latino								
American Indian or Alaska Native	59	50	59	60	61	82	84	90
Asian[b]	231	198	217	231	225	231	260	248
Black or African American	298	310	307	283	285	311	274	332
Native Hawaiian or Other Pacific Islander[b]	22	22	12	13	11	17	23	20
White	6,261	5,995	5,717	5,726	5,775	5,798	6,282	6,510
More than one race[b]	6	14	19	13	13	49	59	73
Unknown ethnicity/race	328	341	369	436	417	490	515	465
Temporary visa holders	2,427	2,406	2,381	2,446	2,592	2,719	2,791	2,827
Biological sciences	55,848	57,697	58,918	60,093	60,428	60,662	61,466	62,770
U.S. citizens and permanent residents	41,202	42,385	43,257	44,525	45,085	44,606	45,548	46,587
Hispanic or Latino	2,485	2,617	2,725	2,879	2,890	2,921	3,116	3,292
Not Hispanic or Latino								
American Indian or Alaska Native	204	223	266	248	250	271	275	312
Asian[b]	4,270	4,383	4,631	4,867	4,921	4,581	4,955	5,136
Black or African American	2,241	2,318	2,418	2,486	2,509	2,645	2,831	2,858

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	267	226	218	219	246	243	226	194
White	29,270	29,917	30,331	30,750	30,900	30,493	30,541	31,225
More than one race[b]	86	104	84	73	75	152	219	542
Unknown ethnicity/race	2,379	2,597	2,584	3,003	3,294	3,300	3,385	3,028
Temporary visa holders	14,646	15,312	15,661	15,568	15,343	16,056	15,918	16,183
Communication[a]	ne	ne	ne	ne	4,528	5,224	6,091	6,274
U.S. citizens and permanent residents	ne	ne	ne	ne	3,549	4,058	4,757	5,001
Hispanic or Latino	ne	ne	ne	ne	196	253	264	326
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	21	31	35	42
Asian[b]	ne	ne	ne	ne	149	185	210	207
Black or African American	ne	ne	ne	ne	279	335	366	401
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	3	11	22	10
White	ne	ne	ne	ne	2,608	2,909	3,390	3,601
More than one race[b]	ne	ne	ne	ne	0	7	63	90
Unknown ethnicity/race	ne	ne	ne	ne	293	327	407	324
Temporary visa holders	ne	ne	ne	ne	979	1,166	1,334	1,273
Computer sciences	29,162	28,317	28,760	30,511	30,082	31,338	32,198	32,782
U.S. citizens and permanent residents	12,719	12,226	11,959	12,037	11,814	11,684	12,113	12,072
Hispanic or Latino	508	494	529	483	480	498	580	564
Not Hispanic or Latino								
American Indian or Alaska Native	49	41	48	43	41	65	61	61
Asian[b]	2,159	1,942	1,800	1,734	1,695	1,622	1,814	1,649
Black or African American	788	764	738	825	813	803	914	963
Native Hawaiian or Other Pacific Islander[b]	23	30	28	18	18	18	28	26
White	7,962	7,725	7,390	7,064	6,926	7,051	7,291	7,353
More than one race[b]	17	15	13	10	10	21	77	144
Unknown ethnicity/race	1,213	1,215	1,413	1,860	1,831	1,606	1,348	1,312
Temporary visa holders	16,443	16,091	16,801	18,474	18,268	19,654	20,085	20,710
Earth, atmospheric, and ocean sciences	11,685	11,370	11,431	11,376	10,892	11,171	11,589	12,318
U.S. citizens and permanent residents	9,122	8,871	8,924	8,926	8,547	8,668	9,060	9,670
Hispanic or Latino	418	409	425	416	395	418	473	522
Not Hispanic or Latino								
American Indian or Alaska Native	51	47	52	61	53	59	61	72
Asian[b]	332	287	294	323	303	295	309	315
Black or African American	194	170	186	196	191	207	223	228
Native Hawaiian or Other Pacific Islander[b]	16	25	17	11	9	12	18	11
White	7,582	7,400	7,356	7,312	7,026	6,989	7,243	7,735
More than one race[b]	23	13	12	11	11	25	43	119
Unknown ethnicity/race	506	520	582	596	559	663	690	668
Temporary visa holders	2,563	2,499	2,507	2,450	2,345	2,503	2,529	2,648
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	1,594	1,936	2,168	2,377
U.S. citizens and permanent residents	ne	ne	ne	ne	1,396	1,659	1,891	2,054
Hispanic or Latino	ne	ne	ne	ne	50	66	83	114
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	14	13	11	14
Asian[b]	ne	ne	ne	ne	61	83	81	95
Black or African American	ne	ne	ne	ne	142	155	229	218
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	0	0	1	1
White	ne	ne	ne	ne	1,046	1,198	1,377	1,443
More than one race[b]	ne	ne	ne	ne	2	3	3	20
Unknown ethnicity/race	ne	ne	ne	ne	81	141	106	149
Temporary visa holders	ne	ne	ne	ne	198	277	277	323

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Mathematical sciences	14,916	15,261	15,571	15,966	15,668	16,241	16,885	17,606
U.S. citizens and permanent residents	8,225	8,534	8,749	9,063	8,943	8,942	9,283	9,766
Hispanic or Latino	365	380	419	459	455	429	484	532
Not Hispanic or Latino								
American Indian or Alaska Native	19	25	40	31	29	37	32	38
Asian[b]	825	846	865	855	829	820	882	941
Black or African American	392	414	420	423	422	402	433	425
Native Hawaiian or Other Pacific Islander[b]	24	25	22	25	25	29	40	18
White	6,016	6,155	6,259	6,423	6,352	6,465	6,636	6,882
More than one race[b]	21	13	10	10	10	19	62	134
Unknown ethnicity/race	563	676	714	837	821	741	714	796
Temporary visa holders	6,691	6,727	6,822	6,903	6,725	7,299	7,602	7,840
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	2,398	3,110	3,957	5,063
U.S. citizens and permanent residents	ne	ne	ne	ne	1,830	2,344	3,087	3,995
Hispanic or Latino	ne	ne	ne	ne	110	167	190	349
Not Hispanic or Latino								
American Indian or Alaska Native	ne	ne	ne	ne	23	34	33	34
Asian[b]	ne	ne	ne	ne	110	129	170	222
Black or African American	ne	ne	ne	ne	131	169	233	320
Native Hawaiian or Other Pacific Islander[b]	ne	ne	ne	ne	8	7	11	5
White	ne	ne	ne	ne	1,159	1,472	1,904	2,546
More than one race[b]	ne	ne	ne	ne	1	6	9	47
Unknown ethnicity/race	ne	ne	ne	ne	288	360	537	472
Temporary visa holders	ne	ne	ne	ne	568	766	870	1,068
Neuroscience[a]	na	na	na	na	1,530	1,909	2,261	2,682
U.S. citizens and permanent residents	na	na	na	na	1,203	1,544	1,864	2,222
Hispanic or Latino	na	na	na	na	75	96	116	162
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	7	11	12	10
Asian[b]	na	na	na	na	132	168	205	223
Black or African American	na	na	na	na	55	60	81	82
Native Hawaiian or Other Pacific Islander[b]	na	na	na	na	4	6	4	5
White	na	na	na	na	865	1,091	1,284	1,579
More than one race[b]	na	na	na	na	0	2	7	11
Unknown ethnicity/race	na	na	na	na	65	110	155	150
Temporary visa holders	na	na	na	na	327	365	397	460
Physical sciences	31,675	32,400	32,841	33,091	32,857	33,254	34,181	34,856
U.S. citizens and permanent residents	18,078	18,595	18,979	19,460	19,288	19,360	19,996	20,511
Hispanic or Latino	1,026	1,055	1,032	1,061	1,057	1,047	1,105	1,164
Not Hispanic or Latino								
American Indian or Alaska Native	68	70	102	91	89	89	96	83
Asian[b]	1,336	1,321	1,405	1,576	1,564	1,454	1,512	1,515
Black or African American	802	784	785	772	770	786	800	820
Native Hawaiian or Other Pacific Islander[b]	30	29	32	36	35	30	45	31
White	13,725	14,200	14,245	14,544	14,404	14,439	14,904	15,224
More than one race[b]	20	34	22	24	24	59	74	244
Unknown ethnicity/race	1,071	1,102	1,356	1,356	1,345	1,456	1,460	1,430
Temporary visa holders	13,597	13,805	13,862	13,631	13,569	13,894	14,185	14,345
Psychology[c]	37,872	38,919	38,994	41,166	40,678	42,103	40,373	38,571
U.S. citizens and permanent residents	35,211	36,435	36,630	38,550	38,134	39,542	37,881	36,058
Hispanic or Latino	3,353	3,494	3,527	3,670	3,652	3,807	3,451	3,392
Not Hispanic or Latino								
American Indian or Alaska Native	248	240	243	246	246	280	256	250
Asian[b]	1,693	1,685	1,824	2,009	1,983	2,028	1,919	1,830
Black or African American	2,761	2,856	2,986	2,910	2,877	3,423	3,453	3,414

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	60	99	75	104	106	83	77	83
White	23,707	23,909	24,420	25,701	25,396	25,579	24,906	23,402
More than one race[b]	55	58	66	66	66	109	244	471
Unknown ethnicity/race	3,334	4,094	3,489	3,844	3,808	4,233	3,575	3,216
Temporary visa holders	2,661	2,484	2,364	2,616	2,544	2,561	2,492	2,513
Social sciences	62,376	63,609	65,991	67,984	66,752	68,225	71,569	72,929
U.S. citizens and permanent residents	46,293	47,640	49,409	51,418	50,454	51,322	54,346	55,402
Hispanic or Latino	3,262	3,689	3,801	3,958	3,902	3,793	4,256	4,405
Not Hispanic or Latino								
American Indian or Alaska Native	399	438	447	487	476	548	551	477
Asian[b]	2,790	3,001	2,987	3,185	3,120	2,965	3,248	3,300
Black or African American	4,586	4,601	4,878	4,939	4,834	5,260	5,570	5,664
Native Hawaiian or Other Pacific Islander[b]	191	197	163	223	222	209	180	190
White	30,879	31,028	32,118	32,858	32,254	32,752	34,390	35,096
More than one race[b]	122	116	148	153	152	278	434	971
Unknown ethnicity/race	4,064	4,570	4,867	5,615	5,494	5,517	5,717	5,299
Temporary visa holders	16,083	15,969	16,582	16,566	16,298	16,903	17,223	17,527
Engineering	86,955	84,459	87,818	93,155	94,313	98,255	104,937	109,792
U.S. citizens and permanent residents	38,882	38,852	40,334	42,176	42,846	44,549	48,645	52,273
Hispanic or Latino	2,406	2,404	2,526	2,642	2,673	2,692	3,102	3,526
Not Hispanic or Latino								
American Indian or Alaska Native	155	159	186	178	182	213	209	207
Asian[b]	5,436	5,289	5,337	5,701	5,759	5,822	6,149	6,755
Black or African American	1,960	1,969	2,140	2,169	2,220	2,283	2,372	2,469
Native Hawaiian or Other Pacific Islander[b]	84	81	72	123	126	99	90	102
White	26,104	25,781	25,991	27,085	27,550	29,097	31,919	34,030
More than one race[b]	24	45	43	38	39	86	263	773
Unknown ethnicity/race	2,713	3,124	4,039	4,240	4,297	4,257	4,541	4,411
Temporary visa holders	48,073	45,607	47,484	50,979	51,467	53,706	56,292	57,519
Aerospace engineering	3,243	3,241	3,374	3,482	3,482	3,691	3,974	4,211
U.S. citizens and permanent residents	1,695	1,763	2,047	2,116	2,116	2,264	2,454	2,721
Hispanic or Latino	75	80	86	95	95	101	119	156
Not Hispanic or Latino								
American Indian or Alaska Native	9	8	9	9	9	16	11	5
Asian[b]	148	172	203	216	216	233	241	301
Black or African American	42	47	49	57	57	83	70	55
Native Hawaiian or Other Pacific Islander[b]	2	1	1	0	0	3	7	2
White	1,300	1,313	1,322	1,486	1,486	1,560	1,697	1,877
More than one race[b]	1	1	0	1	1	1	18	40
Unknown ethnicity/race	118	141	377	252	252	267	291	285
Temporary visa holders	1,548	1,478	1,327	1,366	1,366	1,427	1,520	1,490
Agricultural engineering	842	855	893	917	917	1,022	1,084	1,198
U.S. citizens and permanent residents	430	392	388	401	401	425	483	491
Hispanic or Latino	6	11	13	9	9	17	22	22
Not Hispanic or Latino								
American Indian or Alaska Native	0	1	3	1	1	0	0	3
Asian[b]	38	32	29	22	22	22	18	26
Black or African American	22	19	20	18	18	17	28	29
Native Hawaiian or Other Pacific Islander[b]	1	1	1	2	2	0	1	0
White	354	311	307	322	322	351	386	373
More than one race[b]	0	0	1	2	2	0	1	5
Unknown ethnicity/race	9	17	14	25	25	18	27	33
Temporary visa holders	412	463	505	516	516	597	601	707

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Architecture[a]	na	na	na	na	4,097	5,211	6,112	6,079
U.S. citizens and permanent residents	na	na	na	na	3,259	4,230	4,996	4,916
Hispanic or Latino	na	na	na	na	184	332	404	376
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	15	32	32	35
Asian[b]	na	na	na	na	210	267	291	321
Black or African American	na	na	na	na	172	217	230	211
Native Hawaiian or Other Pacific Islander[b]	na	na	na	na	4	6	5	7
White	na	na	na	na	2,382	3,008	3,546	3,509
More than one race[b]	na	na	na	na	1	10	31	88
Unknown ethnicity/race	na	na	na	na	291	358	457	369
Temporary visa holders	na	na	na	na	838	981	1,116	1,163
Biomedical engineering	5,047	5,254	5,666	5,898	5,921	6,262	6,859	7,418
U.S. citizens and permanent residents	3,190	3,378	3,718	3,880	3,897	4,087	4,485	5,004
Hispanic or Latino	151	151	199	219	219	183	244	270
Not Hispanic or Latino								
American Indian or Alaska Native	14	12	17	18	18	19	17	13
Asian[b]	646	669	751	823	824	806	956	1,052
Black or African American	166	169	184	178	178	182	202	197
Native Hawaiian or Other Pacific Islander[b]	13	10	13	12	12	20	14	13
White	1,999	2,099	2,270	2,249	2,265	2,504	2,700	3,046
More than one race[b]	0	5	9	8	8	11	38	73
Unknown ethnicity/race	201	263	275	373	373	362	314	340
Temporary visa holders	1,857	1,876	1,948	2,018	2,024	2,175	2,374	2,414
Chemical engineering	6,379	6,139	6,218	6,275	6,459	6,762	7,110	7,516
U.S. citizens and permanent residents	2,999	2,921	2,977	2,925	3,011	3,079	3,304	3,504
Hispanic or Latino	208	204	223	207	207	191	189	230
Not Hispanic or Latino								
American Indian or Alaska Native	25	23	16	13	13	13	13	17
Asian[b]	346	365	400	364	374	399	440	494
Black or African American	137	116	120	119	124	119	128	126
Native Hawaiian or Other Pacific Islander[b]	2	10	7	15	15	2	2	11
White	2,158	2,056	2,064	2,051	2,122	2,170	2,315	2,346
More than one race[b]	4	12	3	1	1	9	11	34
Unknown ethnicity/race	119	135	144	155	155	176	206	246
Temporary visa holders	3,380	3,218	3,241	3,350	3,448	3,683	3,806	4,012
Civil engineering[a]	13,588	13,196	13,074	14,691	11,336	11,909	13,503	14,191
U.S. citizens and permanent residents	7,467	7,474	7,520	8,863	6,175	6,378	7,543	7,989
Hispanic or Latino	562	590	618	668	515	456	561	689
Not Hispanic or Latino								
American Indian or Alaska Native	33	32	43	52	40	32	34	32
Asian[b]	633	603	570	689	519	545	694	783
Black or African American	262	273	308	409	286	266	313	341
Native Hawaiian or Other Pacific Islander[b]	7	14	10	16	15	10	14	22
White	5,524	5,441	5,337	6,275	4,288	4,524	5,083	5,317
More than one race[b]	1	4	4	5	5	12	37	232
Unknown ethnicity/race	445	517	630	749	507	533	807	573
Temporary visa holders	6,121	5,722	5,554	5,828	5,161	5,531	5,960	6,202
Electrical engineering	26,732	25,849	27,379	28,934	29,076	29,212	29,282	29,977
U.S. citizens and permanent residents	8,792	8,790	8,696	8,421	8,448	8,486	8,362	8,904
Hispanic or Latino	560	578	539	522	522	507	530	638
Not Hispanic or Latino								
American Indian or Alaska Native	27	26	28	29	30	33	33	32
Asian[b]	1,979	1,969	1,823	1,623	1,625	1,666	1,656	1,677
Black or African American	477	462	497	467	470	468	481	532

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	24	14	8	40	40	25	14	15
White	5,050	4,967	4,785	4,777	4,798	4,674	4,737	5,016
More than one race[b]	11	15	15	11	11	13	38	102
Unknown ethnicity/race	664	759	1,001	952	952	1,100	873	892
Temporary visa holders	17,940	17,059	18,683	20,513	20,628	20,726	20,920	21,073
Engineering science	1,741	1,613	1,656	1,454	1,432	1,486	1,490	1,502
U.S. citizens and permanent residents	848	827	861	763	743	784	754	773
Hispanic or Latino	31	29	30	23	22	33	38	44
Not Hispanic or Latino								
American Indian or Alaska Native	9	9	7	6	5	4	4	1
Asian[b]	123	119	123	128	117	109	95	108
Black or African American	26	22	34	23	23	24	24	26
Native Hawaiian or Other Pacific Islander[b]	1	0	1	2	2	3	0	0
White	616	594	600	524	522	532	502	502
More than one race[b]	1	3	3	1	1	1	4	13
Unknown ethnicity/race	41	51	63	56	51	78	87	79
Temporary visa holders	893	786	795	691	689	702	736	729
Industrial engineering	6,591	6,113	6,421	7,036	7,422	8,216	8,362	8,371
U.S. citizens and permanent residents	2,562	2,549	2,796	2,657	2,882	3,144	3,251	3,314
Hispanic or Latino	233	210	211	199	209	221	248	266
Not Hispanic or Latino								
American Indian or Alaska Native	10	15	22	8	10	12	16	13
Asian[b]	298	284	327	354	403	363	341	381
Black or African American	253	255	276	270	271	348	322	270
Native Hawaiian or Other Pacific Islander[b]	5	3	7	3	4	1	9	4
White	1,515	1,500	1,511	1,400	1,487	1,779	1,836	1,819
More than one race[b]	1	1	0	0	0	7	27	27
Unknown ethnicity/race	247	281	442	423	498	413	452	534
Temporary visa holders	4,029	3,564	3,625	4,379	4,540	5,072	5,111	5,057
Mechanical engineering	12,718	12,178	12,666	13,170	13,160	13,763	15,609	16,625
U.S. citizens and permanent residents	5,810	5,712	6,026	6,411	6,404	6,567	7,462	8,273
Hispanic or Latino	347	331	371	417	417	402	447	502
Not Hispanic or Latino								
American Indian or Alaska Native	18	20	23	25	25	24	28	32
Asian[b]	567	547	559	848	849	798	775	890
Black or African American	243	282	283	261	260	250	272	310
Native Hawaiian or Other Pacific Islander[b]	16	10	20	9	9	15	13	15
White	4,242	4,117	4,332	4,352	4,345	4,518	5,286	5,850
More than one race[b]	2	1	4	5	5	8	32	93
Unknown ethnicity/race	375	404	434	494	494	552	609	581
Temporary visa holders	6,908	6,466	6,640	6,759	6,756	7,196	8,147	8,352
Metallurgical/materials engineering	4,359	4,507	4,627	4,667	4,613	4,811	5,181	5,551
U.S. citizens and permanent residents	1,996	2,066	2,237	2,257	2,235	2,302	2,475	2,660
Hispanic or Latino	75	81	83	95	96	94	126	140
Not Hispanic or Latino								
American Indian or Alaska Native	3	4	6	8	8	12	9	9
Asian[b]	278	267	289	282	279	300	309	353
Black or African American	78	80	114	114	110	98	85	102
Native Hawaiian or Other Pacific Islander[b]	7	7	1	9	9	5	1	2
White	1,466	1,534	1,592	1,583	1,558	1,635	1,780	1,873
More than one race[b]	2	1	3	2	2	7	14	30
Unknown ethnicity/race	87	92	149	164	173	151	151	151
Temporary visa holders	2,363	2,441	2,390	2,410	2,378	2,509	2,706	2,891

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Mining engineering	238	212	181	209	142	207	212	361
U.S. citizens and permanent residents	135	111	78	104	65	93	110	146
Hispanic or Latino	5	6	3	5	3	7	9	4
Not Hispanic or Latino								
American Indian or Alaska Native	1	0	1	0	0	2	1	1
Asian[b]	5	3	0	6	5	7	8	4
Black or African American	4	3	2	5	0	3	7	11
Native Hawaiian or Other Pacific Islander[b]	1	0	0	0	0	0	0	0
White	112	82	64	83	53	72	82	114
More than one race[b]	0	0	0	0	0	0	0	2
Unknown ethnicity/race	7	17	8	5	4	2	3	10
Temporary visa holders	103	101	103	105	77	114	102	215
Nuclear engineering	809	840	910	960	951	941	968	1,123
U.S. citizens and permanent residents	470	515	610	706	704	691	702	846
Hispanic or Latino	21	26	36	35	35	36	32	43
Not Hispanic or Latino								
American Indian or Alaska Native	2	3	2	2	2	3	3	3
Asian[b]	33	35	31	42	42	41	45	59
Black or African American	15	17	15	15	15	19	16	13
Native Hawaiian or Other Pacific Islander[b]	0	2	0	0	0	5	1	2
White	375	407	478	516	514	536	541	638
More than one race[b]	0	0	0	0	0	1	0	12
Unknown ethnicity/race	24	25	48	96	96	50	64	76
Temporary visa holders	339	325	300	254	247	250	266	277
Petroleum engineering	660	631	647	792	792	828	993	1,063
U.S. citizens and permanent residents	119	103	104	135	135	113	139	184
Hispanic or Latino	12	11	10	10	10	6	9	12
Not Hispanic or Latino								
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian[b]	19	10	10	11	11	8	14	29
Black or African American	14	19	14	29	29	19	12	19
Native Hawaiian or Other Pacific Islander[b]	0	0	0	0	0	0	0	0
White	66	59	57	72	72	72	100	113
More than one race[b]	1	0	0	0	0	0	0	2
Unknown ethnicity/race	7	4	13	13	13	8	4	9
Temporary visa holders	541	528	543	657	657	715	854	879
Engineering, nec	4,008	3,831	4,106	4,670	4,513	3,934	4,198	4,606
U.S. citizens and permanent residents	2,369	2,251	2,276	2,537	2,371	1,906	2,125	2,548
Hispanic or Latino	120	96	104	138	130	106	124	134
Not Hispanic or Latino								
American Indian or Alaska Native	4	6	9	7	6	11	8	11
Asian[b]	323	214	222	293	263	258	266	277
Black or African American	221	205	224	204	207	170	182	227
Native Hawaiian or Other Pacific Islander[b]	5	9	3	15	14	4	9	9
White	1,327	1,301	1,272	1,395	1,336	1,162	1,328	1,637
More than one race[b]	0	2	1	2	2	6	12	20
Unknown ethnicity/race	369	418	441	483	413	189	196	233
Temporary visa holders	1,639	1,580	1,830	2,133	2,142	2,028	2,073	2,058
Health[a,c]	62,044	64,878	69,213	67,884	65,823	66,053	57,617	52,078
U.S. citizens and permanent residents	55,891	58,433	62,346	61,213	59,397	59,221	50,689	45,604
Hispanic or Latino	3,778	3,791	4,060	3,997	3,886	3,688	3,440	3,198
Not Hispanic or Latino								
American Indian or Alaska Native	308	307	335	389	382	407	312	243
Asian[b]	4,448	4,727	5,066	4,711	4,544	4,187	3,778	3,518
Black or African American	4,478	4,554	5,078	4,622	4,550	5,064	4,583	4,417

TABLE 15. Full-time graduate students in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Native Hawaiian or Other Pacific Islander[b]	204	157	176	216	183	191	131	163
White	39,035	40,436	43,368	42,581	41,499	40,690	34,466	30,429
More than one race[b]	48	83	90	69	67	159	242	600
Unknown ethnicity/race	3,592	4,378	4,173	4,628	4,286	4,835	3,737	3,036
Temporary visa holders	6,153	6,445	6,867	6,671	6,426	6,832	6,928	6,474

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	518,641	527,048	542,073	551,832	561,352	574,241	573,883	575,785
Science and engineering	432,748	436,320	445,037	457,931	469,517	482,711	497,223	508,114
Science	316,260	321,920	328,413	334,662	345,094	351,988	360,501	366,312
Agricultural sciences	12,573	12,271	12,133	12,285	12,548	13,099	14,110	14,561
Biological sciences	62,834	64,540	65,861	67,267	67,507	68,199	68,580	69,522
Anatomy	897	938	961	979	867	764	833	849
Biochemistry	5,520	5,720	5,713	5,867	5,761	5,365	5,158	5,190
Biology	13,031	13,115	13,789	13,548	13,220	13,888	14,005	14,103
Biometry/epidemiology	4,674	4,805	4,789	5,483	5,694	5,956	5,682	6,346
Biophysics	1,180	1,183	1,203	1,214	1,193	1,084	1,042	1,072
Botany	1,830	1,859	1,848	1,888	1,818	1,801	1,830	1,863
Cell biology	5,697	6,030	6,388	6,547	6,690	6,948	6,970	6,835
Ecology	2,022	2,019	2,019	2,015	1,896	1,896	1,634	1,713
Entomology/parasitology	1,241	1,126	1,114	1,078	1,078	1,079	1,079	1,116
Genetics	2,077	2,095	2,096	2,096	2,064	2,072	2,242	2,333
Microbiology/immunology/virology	5,357	5,377	5,307	5,279	5,177	5,035	4,931	4,859
Nutrition	4,377	4,416	4,659	4,665	4,305	4,638	4,754	4,867
Pathology	1,557	1,593	1,612	1,633	1,580	1,618	1,450	1,314
Pharmacology	3,122	3,114	2,985	3,030	3,013	3,005	3,163	3,101
Physiology	2,240	2,221	2,238	2,242	2,574	2,687	2,776	2,847
Zoology	1,234	1,261	1,143	1,081	1,105	923	873	894
Biological sciences, nec	6,778	7,668	7,997	8,622	9,472	9,440	10,158	10,220
Communication[a]	ne	ne	ne	ne	6,026	7,030	7,951	8,219
Computer sciences	44,462	43,080	43,032	44,066	43,555	44,171	45,593	45,860
Earth, atmospheric, and ocean sciences	14,149	13,981	14,032	13,812	13,359	13,663	13,942	14,756
Atmospheric sciences	1,077	1,139	1,071	1,110	1,171	1,394	1,348	1,443
Geosciences	6,944	6,904	6,856	6,781	6,719	6,766	7,141	7,800
Oceanography	2,705	2,659	2,674	2,559	2,511	2,532	2,527	2,455
Earth/atmospheric/ocean sciences, nec	3,423	3,279	3,431	3,362	2,958	2,971	2,926	3,058
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	2,491	3,007	3,084	3,491
Mathematical sciences	18,254	18,570	19,037	19,540	19,180	19,722	20,527	21,330
Mathematics/applied mathematics	14,383	14,572	15,004	15,207	14,841	14,894	15,679	16,029
Statistics	3,871	3,998	4,033	4,333	4,339	4,828	4,848	5,301
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	3,693	4,686	5,511	6,742
Neuroscience[a]	na	na	na	na	1,561	1,980	2,316	2,798
Physical sciences	34,866	35,435	35,928	36,036	35,768	36,320	37,098	37,871
Astronomy	1,119	1,191	1,211	1,233	1,232	1,275	1,409	1,331
Chemistry	20,219	20,483	20,716	20,695	20,569	20,884	21,374	21,673
Physics	13,082	13,274	13,509	13,589	13,575	13,636	13,834	14,294
Physical sciences, nec	446	487	492	519	392	525	481	573
Psychology[b]	43,704	46,289	47,217	48,773	48,106	48,427	46,564	45,246
Clinical psychology	12,220	12,773	12,501	12,962	13,036	12,205	12,239	11,250
Psychology, general	11,640	12,126	12,133	13,281	13,013	13,133	11,841	11,248
Psychology, nec	19,844	21,390	22,583	22,530	22,057	23,089	22,484	22,748
Social sciences	85,418	87,754	91,173	92,883	91,300	91,684	95,225	95,916
Agricultural economics	2,195	2,121	2,151	2,120	1,983	2,126	2,215	2,171
Anthropology (cultural/social)	7,413	7,387	7,726	7,652	7,682	7,845	7,872	8,013
Economics (except agricultural)	11,649	11,160	11,438	11,659	11,928	12,275	13,200	13,450
Geography	4,295	4,259	4,228	4,089	4,089	4,148	4,196	4,401
History and philosophy of science	624	716	742	910	845	998	851	552
Linguistics	2,673	2,919	2,821	2,801	2,604	2,824	2,882	2,863
Political science	33,097	34,701	36,118	36,296	35,806	35,342	37,744	38,578

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Sociology	7,914	8,135	8,214	8,239	8,148	8,531	8,528	8,695
Sociology/anthropology	811	825	818	808	659	626	553	305
Social sciences, nec	14,747	15,531	16,917	18,309	17,556	16,969	17,184	16,888
Engineering	116,488	114,400	116,624	123,269	124,423	130,723	136,722	141,802
Aerospace engineering	3,997	4,055	4,357	4,480	4,480	4,761	5,096	5,474
Agricultural engineering	1,041	1,059	1,073	1,126	1,126	1,233	1,303	1,457
Architecture[a]	na	na	na	na	4,483	5,760	6,661	6,647
Biomedical engineering	5,749	6,015	6,430	6,848	6,871	7,334	7,879	8,439
Chemical engineering	7,334	7,054	7,151	7,291	7,492	7,794	8,077	8,573
Civil engineering[a]	17,881	17,455	17,158	19,189	15,461	16,169	17,708	18,499
Electrical engineering	36,132	35,248	35,948	37,708	37,887	38,248	38,070	38,609
Engineering science	2,134	1,910	1,967	1,824	1,772	1,932	2,004	2,020
Industrial engineering	12,951	12,760	12,959	13,333	13,504	14,758	14,626	13,936
Mechanical engineering	17,128	16,681	17,156	17,834	17,815	18,723	20,201	21,519
Metallurgical/materials engineering	4,998	5,115	5,223	5,310	5,259	5,486	5,822	6,216
Mining engineering	298	265	238	296	211	283	302	408
Nuclear engineering	971	1,013	1,099	1,208	1,180	1,201	1,243	1,459
Petroleum engineering	843	806	808	1,006	1,006	1,000	1,184	1,289
Engineering, nec	5,031	4,964	5,057	5,816	5,876	6,041	6,546	7,257
Health[b]	85,893	90,728	97,036	93,901	91,835	91,530	76,660	67,671
Clinical medicine	19,863	20,403	22,425	23,573	21,686	22,803	22,670	24,068
Anesthesiology	1,027	1,042	1,042	589	589	294	163	66
Cardiology	39	33	32	26	26	45	45	48
Endocrinology	63	56	42	40	40	64	50	53
Gastroenterology	16	7	18	28	28	15	15	7
Hematology	30	13	14	9	9	8	11	6
Neurology[a]	2,642	2,763	2,959	3,358	1,751	1,462	1,323	1,056
Obstetrics/gynecology	17	21	54	81	81	83	89	79
Oncology/cancer research	274	331	341	355	264	260	272	232
Ophthalmology	423	394	414	407	379	1	1	5
Otorhinolaryngology	12	12	14	15	15	14	4	4
Pediatrics	424	278	284	302	302	207	186	211
Preventive medicine/community health	11,946	12,131	13,821	14,945	15,517	17,105	17,586	19,076
Psychiatry	348	250	274	278	218	188	233	260
Pulmonary disease	7	27	10	24	24	13	13	12
Radiology	211	215	225	270	281	320	385	396
Surgery	75	88	105	47	31	31	40	59
Clinical medicine, nec	2,309	2,742	2,776	2,799	2,131	2,693	2,254	2,498
Other health[b]	66,030	70,325	74,611	70,328	70,149	68,727	53,990	43,603
Dental sciences	1,946	1,748	1,614	1,537	1,688	1,643	1,770	1,661
Nursing	25,081	26,699	29,760	27,901	27,901	26,779	18,706	10,415
Pharmaceutical sciences	5,218	6,088	6,311	4,959	5,061	4,245	4,435	4,280

TABLE 16. Graduate students in science, engineering, and health in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Speech pathology/audiology	11,010	11,851	11,892	12,820	12,812	12,769	11,377	11,305
Veterinary sciences	1,732	1,970	2,067	2,020	2,371	2,478	2,170	2,211
Other health, nec	21,043	21,969	22,967	21,091	20,316	20,813	15,532	13,731

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 17. Graduate students in science, engineering, and health in public doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	363,543	366,019	372,074	379,576	387,725	396,733	399,013	402,741
Science and engineering	302,992	303,409	306,122	314,948	324,148	333,478	345,236	353,439
Science	216,561	219,780	222,064	225,512	233,884	238,463	245,153	250,472
Agricultural sciences	11,988	11,689	11,561	11,721	12,016	12,521	13,224	13,793
Biological sciences	43,632	45,094	45,934	46,790	46,594	46,699	46,533	47,208
Anatomy	611	646	607	638	510	456	528	519
Biochemistry	3,821	4,012	3,982	4,130	4,075	3,659	3,634	3,660
Biology	9,338	9,524	10,027	9,669	9,464	10,001	10,008	9,976
Biometry/epidemiology	2,724	2,782	2,881	3,105	3,260	3,357	3,134	3,684
Biophysics	732	739	772	766	745	676	641	645
Botany	1,759	1,787	1,773	1,812	1,742	1,726	1,753	1,789
Cell biology	3,640	3,903	4,149	4,285	4,396	4,581	4,522	4,437
Ecology	1,841	1,806	1,810	1,789	1,645	1,649	1,383	1,444
Entomology/parasitology	1,197	1,094	1,079	1,043	1,043	1,047	1,047	1,084
Genetics	1,231	1,285	1,286	1,285	1,228	1,233	1,247	1,343
Microbiology/immunology/virology	3,389	3,405	3,336	3,309	3,273	3,195	3,140	3,056
Nutrition	3,367	3,527	3,653	3,817	3,457	3,579	3,603	3,652
Pathology	998	958	1,006	955	867	859	824	830
Pharmacology	2,025	2,104	1,923	1,978	2,010	1,982	2,058	1,965
Physiology	1,274	1,272	1,358	1,396	1,691	1,774	1,854	1,942
Zoology	1,204	1,254	1,138	1,078	1,102	919	869	889
Biological sciences, nec	4,481	4,996	5,154	5,735	6,086	6,006	6,288	6,293
Communication[a]	ne	ne	ne	ne	5,094	5,675	6,319	6,359
Computer sciences	27,826	27,166	26,903	27,407	27,026	27,698	29,133	29,838
Earth, atmospheric, and ocean sciences	11,823	11,641	11,656	11,509	11,051	11,218	11,489	12,239
Atmospheric sciences	1,033	1,082	1,039	1,059	1,120	1,328	1,287	1,378
Geosciences	5,717	5,689	5,627	5,648	5,586	5,580	5,960	6,523
Oceanography	2,276	2,181	2,196	2,104	2,056	2,028	2,033	1,914
Earth/atmospheric/ocean sciences, nec	2,797	2,689	2,794	2,698	2,289	2,282	2,209	2,424
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	2,291	2,645	2,675	3,138
Mathematical sciences	14,144	14,422	14,594	15,006	14,883	15,288	15,957	16,523
Mathematics/applied mathematics	11,064	11,300	11,457	11,632	11,521	11,553	12,275	12,516
Statistics	3,080	3,122	3,137	3,374	3,362	3,735	3,682	4,007
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	2,944	3,586	4,115	5,045
Neuroscience[a]	na	na	na	na	1,007	1,168	1,308	1,673
Physical sciences	25,685	26,341	26,520	26,502	26,234	26,566	27,342	27,770
Astronomy	663	690	679	698	697	704	821	707
Chemistry	14,928	15,309	15,394	15,263	15,137	15,373	15,872	16,025
Physics	9,655	9,862	9,963	10,030	10,016	10,085	10,295	10,661
Physical sciences, nec	439	480	484	511	384	404	354	377
Psychology[b]	21,844	22,244	22,204	23,759	23,220	23,681	22,917	22,228
Clinical psychology	3,104	2,972	3,006	3,075	3,084	3,001	3,174	3,284
Psychology, general	7,924	8,483	8,752	8,671	8,608	8,909	8,185	7,476
Psychology, nec	10,816	10,789	10,446	12,013	11,528	11,771	11,558	11,468
Social sciences	59,619	61,183	62,692	62,818	61,524	61,718	64,141	64,658
Agricultural economics	2,110	2,049	2,081	2,047	1,910	2,045	2,130	2,083
Anthropology (cultural/social)	5,546	5,497	5,800	5,711	5,741	5,848	5,913	6,039
Economics (except agricultural)	8,008	7,689	7,834	7,814	7,956	8,132	8,783	8,900
Geography	3,999	3,986	3,921	3,771	3,771	3,807	3,848	4,022
History and philosophy of science	406	477	515	677	663	733	706	407
Linguistics	2,027	2,061	2,203	2,159	2,079	2,207	2,260	2,214
Political science	20,099	20,618	20,686	20,963	20,663	20,444	21,582	22,370
Sociology	5,958	6,121	6,186	6,239	6,213	6,643	6,559	6,726

TABLE 17. Graduate students in science, engineering, and health in public doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Sociology/anthropology	676	687	711	728	579	542	467	231
Social sciences, nec	10,790	11,998	12,755	12,709	11,949	11,317	11,893	11,666
Engineering	86,431	83,629	84,058	89,436	90,264	95,015	100,083	102,967
Aerospace engineering	2,935	2,964	3,154	3,275	3,275	3,533	3,929	4,163
Agricultural engineering	979	999	1,011	1,059	1,059	1,173	1,230	1,277
Architecture[a]	na	na	na	na	3,610	4,597	5,362	5,389
Biomedical engineering	3,688	3,793	3,984	4,308	4,308	4,783	4,873	5,152
Chemical engineering	5,352	5,072	5,052	5,104	5,248	5,458	5,717	5,914
Civil engineering[a]	14,487	14,136	13,783	15,204	12,349	12,974	14,233	14,820
Electrical engineering	26,032	24,978	25,047	26,639	26,833	27,218	27,594	27,495
Engineering science	1,349	1,078	1,088	1,115	1,059	1,255	1,361	1,297
Industrial engineering	8,766	8,163	8,270	9,023	8,714	9,491	9,137	8,547
Mechanical engineering	13,168	12,536	12,686	12,814	12,795	13,321	14,502	15,632
Metallurgical/materials engineering	3,741	3,947	4,010	4,078	4,027	4,144	4,389	4,680
Mining engineering	298	265	238	296	211	283	302	408
Nuclear engineering	872	913	992	1,086	1,058	1,065	1,110	1,315
Petroleum engineering	706	690	696	887	887	854	1,009	1,105
Engineering, nec	4,058	4,095	4,047	4,548	4,831	4,866	5,335	5,773
Health[b]	60,551	62,610	65,952	64,628	63,577	63,255	53,777	49,302
Clinical medicine	11,906	12,207	12,447	14,240	13,275	14,232	14,385	15,472
Anesthesiology	565	544	547	388	388	157	104	11
Cardiology	0	0	3	0	0	25	24	29
Endocrinology	62	56	42	40	40	44	50	52
Gastroenterology	16	7	18	19	19	7	13	2
Hematology	23	13	14	8	8	5	8	5
Neurology[a]	1,419	1,477	1,548	1,856	814	671	637	454
Obstetrics/gynecology	3	10	16	14	14	5	8	11
Oncology/cancer research	137	186	179	202	171	124	149	127
Ophthalmology	404	392	406	407	379	1	1	5
Otorhinolaryngology	12	12	12	12	12	14	4	1
Pediatrics	355	211	211	231	231	147	114	119
Preventive medicine/community health	7,170	7,367	7,531	8,738	9,115	10,389	10,872	12,078
Psychiatry	302	197	236	233	173	133	165	177
Pulmonary disease	6	26	9	10	10	12	13	12
Radiology	185	192	198	253	264	273	306	284
Surgery	68	81	99	40	24	18	28	48
Clinical medicine, nec	1,179	1,436	1,378	1,789	1,613	2,207	1,889	2,057
Other health[b]	48,645	50,403	53,505	50,388	50,302	49,023	39,392	33,830
Dental sciences	1,629	1,447	1,311	1,190	1,298	1,333	1,303	1,216
Nursing	20,165	20,405	22,280	20,303	20,303	18,975	11,690	7,540
Pharmaceutical sciences	3,964	4,302	4,257	3,493	3,589	3,211	3,483	3,435
Speech pathology/audiology	8,028	8,621	8,769	9,601	9,593	9,543	9,624	9,470
Veterinary sciences	1,674	1,858	1,951	1,872	2,124	2,244	1,981	1,997
Other health, nec	13,185	13,770	14,937	13,929	13,395	13,717	11,311	10,172

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 18. Graduate students in science and engineering in doctorate-granting institutions, by enrollment status, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Enrollment status, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	432,748	436,320	445,037	457,931	469,517	482,711	497,223	508,114
U.S. citizens and permanent residents	294,384	301,565	308,425	316,140	326,029	331,190	342,119	349,845
Hispanic or Latino	18,712	19,760	20,420	21,188	21,719	22,174	23,131	24,439
Not Hispanic or Latino								
American Indian or Alaska Native	1,583	1,683	1,843	1,889	1,973	2,277	2,285	2,202
Asian[b]	25,136	25,351	25,807	26,784	27,275	26,833	28,333	28,913
Black or African American	20,611	21,160	21,850	22,765	23,563	24,359	25,513	26,470
Native Hawaiian or Other Pacific Islander[b]	805	811	760	951	1,005	801	902	913
White	203,493	204,845	208,070	211,323	218,172	221,451	227,567	232,197
More than one race[b]	453	517	482	532	540	1,193	2,080	4,354
Unknown ethnicity/race	23,591	27,438	29,193	30,708	31,782	32,102	32,308	30,357
Temporary visa holders	138,364	134,755	136,612	141,791	143,488	151,521	155,104	158,269
Full-time enrollment	322,655	323,371	331,382	342,430	350,133	362,344	376,569	386,384
U.S. citizens and permanent residents	202,854	205,484	210,783	217,999	224,239	229,834	239,731	246,304
Hispanic or Latino	12,893	13,392	13,885	14,400	14,716	15,015	16,093	17,033
Not Hispanic or Latino								
American Indian or Alaska Native	1,131	1,153	1,308	1,311	1,352	1,573	1,601	1,537
Asian[b]	17,581	17,480	18,166	19,204	19,546	19,037	20,399	21,048
Black or African American	12,634	12,596	13,262	13,611	14,045	15,253	16,131	16,466
Native Hawaiian or Other Pacific Islander[b]	614	651	568	674	715	587	653	605
White	142,931	143,048	145,374	148,610	152,924	156,422	162,190	166,271
More than one race[b]	357	404	406	395	400	782	1,460	3,300
Unknown ethnicity/race	14,713	16,760	17,814	19,794	20,541	21,165	21,204	20,044
Temporary visa holders	119,801	117,887	120,599	124,431	125,894	132,510	136,838	140,080
Part-time enrollment	110,093	112,949	113,655	115,501	119,384	120,367	120,654	121,730
U.S. citizens and permanent residents	91,530	96,081	97,642	98,141	101,790	101,356	102,388	103,541
Hispanic or Latino	5,819	6,368	6,535	6,788	7,003	7,159	7,038	7,406
Not Hispanic or Latino								
American Indian or Alaska Native	452	530	535	578	621	704	684	665
Asian[b]	7,555	7,871	7,641	7,580	7,729	7,796	7,934	7,865
Black or African American	7,977	8,564	8,588	9,154	9,518	9,106	9,382	10,004
Native Hawaiian or Other Pacific Islander[b]	191	160	192	277	290	214	249	308
White	60,562	61,797	62,696	62,713	65,248	65,029	65,377	65,926
More than one race[b]	96	113	76	137	140	411	620	1,054
Unknown ethnicity/race	8,878	10,678	11,379	10,914	11,241	10,937	11,104	10,313
Temporary visa holders	18,563	16,868	16,013	17,360	17,594	19,011	18,266	18,189

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	377,984	381,198	393,138	403,722	409,421	422,287	428,856	433,252
Federal	82,597	82,328	82,901	80,403	80,691	76,903	80,244	85,272
DOD	8,967	8,948	8,826	8,809	8,820	8,180	8,649	9,172
DOE	4,130	4,386	4,469	4,277	4,280	4,335	4,601	5,500
HHS	30,613	30,489	31,028	29,852	29,904	28,354	28,638	29,757
NIH	26,617	26,798	27,543	26,885	26,918	25,913	26,454	27,521
Other HHS	3,996	3,691	3,485	2,967	2,986	2,441	2,184	2,236
NASA	2,900	2,672	2,352	2,309	2,312	2,328	2,418	2,459
NSF	19,859	20,257	20,255	19,668	19,713	19,805	21,602	23,139
USDA	3,552	3,339	2,994	2,790	2,804	2,759	2,697	3,041
Other	12,576	12,237	12,977	12,698	12,858	11,142	11,639	12,204
Institutional	149,182	150,941	154,856	162,019	165,084	174,047	172,414	171,734
Other nonfederal	26,720	26,703	27,640	26,759	26,908	25,717	26,585	25,934
Domestic	23,936	24,171	25,017	23,901	24,041	21,962	22,666	21,822
Foreign	2,784	2,532	2,623	2,858	2,867	3,755	3,919	4,112
Self-support	119,485	121,226	127,741	134,541	136,738	145,620	149,613	150,312
Science and engineering	322,655	323,371	331,382	342,430	350,133	362,344	376,569	386,384
Federal	73,436	73,700	73,692	71,927	73,048	70,383	74,728	79,554
DOD	8,639	8,601	8,465	8,475	8,497	7,864	8,411	8,898
DOE	4,114	4,370	4,442	4,241	4,246	4,311	4,587	5,476
HHS	23,650	23,881	24,331	23,621	24,461	23,947	24,682	25,586
NIH	22,319	22,731	23,286	22,602	23,425	22,829	23,521	24,349
Other HHS	1,331	1,150	1,045	1,019	1,036	1,118	1,161	1,237
NASA	2,875	2,652	2,338	2,301	2,305	2,320	2,415	2,366
NSF	19,690	20,049	19,972	19,446	19,515	19,599	21,433	22,946
USDA	3,468	3,252	2,896	2,715	2,715	2,691	2,616	2,941
Other	11,000	10,895	11,248	11,128	11,309	9,651	10,584	11,341
Institutional	137,071	137,828	141,069	146,694	150,326	159,833	159,636	159,696
Other nonfederal	24,155	24,089	24,598	23,859	24,108	23,440	24,146	23,836
Domestic	21,615	21,748	22,156	21,248	21,483	19,933	20,519	20,067
Foreign	2,540	2,341	2,442	2,611	2,625	3,507	3,627	3,769
Self-support	87,993	87,754	92,023	99,950	102,651	108,688	118,059	123,298
Science	238,039	241,130	246,248	252,596	259,222	267,267	275,074	279,950
Federal	52,246	52,535	52,441	51,020	51,974	49,682	51,903	54,399
DOD	3,340	3,275	3,134	3,206	3,185	3,100	3,193	3,466
DOE	2,357	2,456	2,508	2,484	2,482	2,475	2,523	2,782
HHS	21,517	21,627	21,850	21,002	21,835	21,165	21,731	22,256
NIH	20,412	20,663	20,940	20,138	20,954	20,180	20,758	21,248
Other HHS	1,105	964	910	864	881	985	973	1,008
NASA	1,451	1,382	1,292	1,302	1,298	1,304	1,295	1,367
NSF	12,943	13,211	13,065	12,818	12,791	12,761	13,808	14,578
USDA	3,060	2,919	2,564	2,411	2,415	2,392	2,333	2,606
Other	7,578	7,665	8,028	7,797	7,968	6,485	7,020	7,344
Institutional	106,522	108,539	110,816	114,596	117,932	125,045	124,895	124,920
Other nonfederal	14,375	14,379	14,889	14,488	14,636	13,910	14,057	13,771
Domestic	12,719	12,882	13,283	12,921	13,075	11,866	11,909	11,566
Foreign	1,656	1,497	1,606	1,567	1,561	2,044	2,148	2,205
Self-support	64,896	65,677	68,102	72,492	74,680	78,630	84,219	86,860
Agricultural sciences	9,509	9,185	8,977	9,103	9,276	9,564	10,246	10,505
Federal	2,496	2,319	2,259	2,241	2,293	2,010	2,170	2,399
DOD	24	24	25	58	57	26	23	26
DOE	49	53	42	53	53	38	58	70
HHS	90	84	78	74	74	68	69	77
NIH	67	74	67	52	52	61	52	68
Other HHS	23	10	11	22	22	7	17	9
NASA	52	49	42	41	47	39	41	41
NSF	202	211	216	257	257	222	265	339

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
USDA	1,369	1,277	1,169	1,029	1,081	1,064	1,108	1,242
Other	710	621	687	729	724	553	606	604
Institutional	3,926	3,888	3,993	4,169	4,320	4,716	4,606	4,528
Other nonfederal	1,571	1,455	1,286	1,219	1,238	1,259	1,323	1,360
Domestic	1,443	1,351	1,208	1,161	1,175	1,128	1,237	1,235
Foreign	128	104	78	58	63	131	86	125
Self-support	1,516	1,523	1,439	1,474	1,425	1,579	2,147	2,218
Biological sciences	54,139	55,836	57,082	58,011	58,327	58,501	59,235	60,028
Federal	21,624	21,967	22,091	20,925	20,868	19,841	20,420	21,139
DOD	430	346	360	360	356	398	402	437
DOE	224	253	213	178	177	176	198	208
HHS	16,100	16,167	16,595	15,717	15,726	15,082	15,504	15,888
NIH	15,585	15,648	16,086	15,303	15,322	14,624	15,109	15,429
Other HHS	515	519	509	414	404	458	395	459
NASA	105	94	81	65	67	51	54	65
NSF	2,255	2,292	2,204	2,118	2,119	2,123	2,279	2,367
USDA	1,072	1,071	904	901	841	791	769	830
Other	1,438	1,744	1,734	1,586	1,582	1,220	1,214	1,344
Institutional	21,736	22,760	23,134	24,465	24,355	25,173	24,818	24,415
Other nonfederal	3,766	3,939	4,207	4,086	4,058	3,892	3,863	3,770
Domestic	3,522	3,681	3,918	3,816	3,792	3,515	3,401	3,268
Foreign	244	258	289	270	266	377	462	502
Self-support	7,013	7,170	7,650	8,535	9,046	9,595	10,134	10,704
Communication[a]	ne	ne	ne	ne	4,049	4,642	5,429	5,588
Federal	ne	ne	ne	ne	116	91	119	137
DOD	ne	ne	ne	ne	8	8	19	21
DOE	ne	ne	ne	ne	0	0	1	1
HHS	ne	ne	ne	ne	23	28	27	32
NIH	ne	ne	ne	ne	19	24	20	22
Other HHS	ne	ne	ne	ne	4	4	7	10
NASA	ne	ne	ne	ne	0	0	0	0
NSF	ne	ne	ne	ne	14	19	40	48
USDA	ne	ne	ne	ne	7	5	5	4
Other	ne	ne	ne	ne	64	31	27	31
Institutional	ne	ne	ne	ne	2,303	2,725	2,921	2,898
Other nonfederal	ne	ne	ne	ne	209	303	301	287
Domestic	ne	ne	ne	ne	185	293	289	269
Foreign	ne	ne	ne	ne	24	10	12	18
Self-support	ne	ne	ne	ne	1,421	1,523	2,088	2,266
Computer sciences	27,204	26,524	26,937	28,285	27,874	28,850	29,669	30,080
Federal	5,100	5,326	5,008	5,135	5,060	4,920	5,236	5,764
DOD	1,182	1,403	1,196	1,243	1,220	1,201	1,216	1,299
DOE	155	156	164	176	178	141	143	188
HHS	294	327	310	358	357	367	341	385
NIH	261	289	268	331	329	324	307	330
Other HHS	33	38	42	27	28	43	34	55
NASA	141	95	85	102	102	82	74	64
NSF	2,739	2,810	2,708	2,744	2,693	2,630	2,874	3,157
USDA	37	21	32	28	29	10	11	19
Other	552	514	513	484	481	489	577	652
Institutional	8,574	8,530	8,528	8,740	8,648	9,451	9,574	8,911
Other nonfederal	1,698	1,632	1,625	1,495	1,360	1,288	1,430	1,398
Domestic	1,519	1,453	1,421	1,295	1,181	1,070	1,172	1,157
Foreign	179	179	204	200	179	218	258	241
Self-support	11,832	11,036	11,776	12,915	12,806	13,191	13,429	14,007

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Earth, atmospheric, and ocean sciences	11,265	10,999	11,102	10,973	10,570	10,874	11,211	11,868
Federal	3,309	3,277	3,285	3,275	3,161	3,090	3,078	3,272
DOD	128	153	131	116	111	114	99	118
DOE	170	166	117	148	145	148	145	176
HHS	42	29	64	26	26	30	36	34
NIH	25	17	55	25	25	22	24	24
Other HHS	17	12	9	1	1	8	12	10
NASA	456	457	417	429	417	433	444	458
NSF	1,497	1,493	1,537	1,496	1,445	1,445	1,459	1,571
USDA	92	73	70	79	67	71	50	44
Other	924	906	949	981	950	849	845	871
Institutional	5,043	4,842	4,787	4,811	4,603	4,898	5,039	5,217
Other nonfederal	864	941	1,059	885	858	912	926	949
Domestic	792	845	980	788	768	769	775	769
Foreign	72	96	79	97	90	143	151	180
Self-support	2,049	1,939	1,971	2,002	1,948	1,974	2,168	2,430
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	1,489	1,754	1,903	2,118
Federal	ne	ne	ne	ne	91	99	111	123
DOD	ne	ne	ne	ne	3	6	7	3
DOE	ne	ne	ne	ne	0	0	0	0
HHS	ne	ne	ne	ne	47	38	49	56
NIH	ne	ne	ne	ne	31	28	40	39
Other HHS	ne	ne	ne	ne	16	10	9	17
NASA	ne	ne	ne	ne	0	0	0	0
NSF	ne	ne	ne	ne	9	9	13	11
USDA	ne	ne	ne	ne	4	24	11	19
Other	ne	ne	ne	ne	28	22	31	34
Institutional	ne	ne	ne	ne	743	951	928	1,097
Other nonfederal	ne	ne	ne	ne	78	102	105	90
Domestic	ne	ne	ne	ne	78	100	103	83
Foreign	ne	ne	ne	ne	0	2	2	7
Self-support	ne	ne	ne	ne	577	602	759	808
Mathematical sciences	14,357	14,652	14,995	15,311	15,013	15,636	16,328	16,917
Federal	1,690	1,718	1,738	1,691	1,654	1,594	1,869	1,854
DOD	163	184	175	173	162	169	148	164
DOE	64	69	64	54	53	49	51	61
HHS	174	165	178	189	192	171	205	217
NIH	154	155	152	159	163	155	183	198
Other HHS	20	10	26	30	29	16	22	19
NASA	24	24	18	16	12	13	20	18
NSF	1,018	1,011	1,006	987	963	977	1,139	1,097
USDA	33	35	19	19	19	15	16	36
Other	214	230	278	253	253	200	290	261
Institutional	9,725	9,883	9,910	10,063	9,997	10,606	10,507	10,746
Other nonfederal	371	425	459	515	503	420	474	492
Domestic	295	342	390	460	455	324	349	338
Foreign	76	83	69	55	48	96	125	154
Self-support	2,571	2,626	2,888	3,042	2,859	3,016	3,478	3,825
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	2,076	2,818	3,420	4,482
Federal	ne	ne	ne	ne	346	304	351	601
DOD	ne	ne	ne	ne	24	23	22	68
DOE	ne	ne	ne	ne	5	8	6	21
HHS	ne	ne	ne	ne	56	55	75	120
NIH	ne	ne	ne	ne	49	52	71	91
Other HHS	ne	ne	ne	ne	7	3	4	29
NASA	ne	ne	ne	ne	5	4	3	12
NSF	ne	ne	ne	ne	134	113	134	195

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
USDA	ne	ne	ne	ne	13	7	15	21
Other	ne	ne	ne	ne	109	94	96	164
Institutional	ne	ne	ne	ne	807	1,342	1,555	1,916
Other nonfederal	ne	ne	ne	ne	80	122	134	208
Domestic	ne	ne	ne	ne	71	92	93	170
Foreign	ne	ne	ne	ne	9	30	41	38
Self-support	ne	ne	ne	ne	843	1,050	1,380	1,757
Neuroscience[a]	na	na	na	na	1,529	1,908	2,261	2,682
Federal	na	na	na	na	844	1,045	1,200	1,340
DOD	na	na	na	na	9	9	33	44
DOE	na	na	na	na	0	1	1	1
HHS	na	na	na	na	785	957	1,072	1,179
NIH	na	na	na	na	780	948	1,046	1,155
Other HHS	na	na	na	na	5	9	26	24
NASA	na	na	na	na	0	1	0	0
NSF	na	na	na	na	22	53	75	93
USDA	na	na	na	na	0	0	1	1
Other	na	na	na	na	28	24	18	22
Institutional	na	na	na	na	529	656	838	1,039
Other nonfederal	na	na	na	na	88	111	139	153
Domestic	na	na	na	na	82	102	127	144
Foreign	na	na	na	na	6	9	12	9
Self-support	na	na	na	na	68	96	84	150
Physical sciences	31,267	31,921	32,368	32,548	32,327	32,747	33,671	34,280
Federal	11,145	11,149	11,189	11,222	11,147	10,660	11,045	11,183
DOD	1,146	892	906	1,002	996	865	904	935
DOE	1,613	1,695	1,834	1,795	1,791	1,866	1,894	2,011
HHS	2,531	2,615	2,518	2,560	2,531	2,394	2,362	2,264
NIH	2,356	2,473	2,396	2,403	2,374	2,253	2,210	2,156
Other HHS	175	142	122	157	157	141	152	108
NASA	556	574	571	583	582	607	573	630
NSF	4,072	4,131	4,083	3,901	3,873	3,956	4,176	4,307
USDA	41	39	24	34	33	67	32	28
Other	1,186	1,203	1,253	1,347	1,341	905	1,104	1,008
Institutional	16,508	16,954	17,241	17,288	17,227	18,186	18,236	18,554
Other nonfederal	2,083	2,147	2,178	2,188	2,174	1,971	2,033	1,942
Domestic	1,985	2,054	2,067	1,999	1,985	1,736	1,771	1,680
Foreign	98	93	111	189	189	235	262	262
Self-support	1,531	1,671	1,760	1,850	1,779	1,930	2,357	2,601
Psychology[b]	32,111	32,781	32,944	34,801	34,286	35,866	34,585	33,566
Federal	3,411	3,457	3,354	3,305	3,201	2,897	2,966	3,112
DOD	135	143	145	130	115	125	138	168
DOE	27	30	32	30	30	6	0	1
HHS	1,849	1,845	1,732	1,690	1,641	1,594	1,584	1,592
NIH	1,647	1,703	1,599	1,545	1,501	1,390	1,378	1,427
Other HHS	202	142	133	145	140	204	206	165
NASA	27	7	8	2	3	6	6	5
NSF	366	393	415	419	380	361	411	489
USDA	20	15	11	6	6	3	6	5
Other	987	1,024	1,011	1,028	1,026	802	821	852
Institutional	12,426	12,490	12,787	13,643	13,464	13,745	13,215	12,855
Other nonfederal	1,331	1,358	1,505	1,512	1,450	1,215	1,170	1,143
Domestic	1,286	1,328	1,453	1,455	1,399	1,108	1,096	1,034
Foreign	45	30	52	57	51	107	74	109
Self-support	14,943	15,476	15,298	16,341	16,171	18,009	17,234	16,456

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Social sciences	58,187	59,232	61,843	63,564	62,406	64,107	67,116	67,836
Federal	3,471	3,322	3,517	3,226	3,193	3,131	3,338	3,475
DOD	132	130	196	124	124	156	182	183
DOE	55	34	42	50	50	42	26	44
HHS	437	395	375	388	377	381	407	412
NIH	317	304	317	320	309	299	318	309
Other HHS	120	91	58	68	68	82	89	103
NASA	90	82	70	64	63	68	80	74
NSF	794	870	896	896	882	853	943	904
USDA	396	388	335	315	315	335	309	357
Other	1,567	1,423	1,603	1,389	1,382	1,296	1,391	1,501
Institutional	28,584	29,192	30,436	31,417	30,936	32,596	32,658	32,744
Other nonfederal	2,691	2,482	2,570	2,588	2,540	2,315	2,159	1,979
Domestic	1,877	1,828	1,846	1,947	1,904	1,629	1,496	1,419
Foreign	814	654	724	641	636	686	663	560
Self-support	23,441	24,236	25,320	26,333	25,737	26,065	28,961	29,638
Engineering	84,616	82,241	85,134	89,834	90,911	95,077	101,495	106,434
Federal	21,190	21,165	21,251	20,907	21,074	20,701	22,825	25,155
DOD	5,299	5,326	5,331	5,269	5,312	4,764	5,218	5,432
DOE	1,757	1,914	1,934	1,757	1,764	1,836	2,064	2,694
HHS	2,133	2,254	2,481	2,619	2,626	2,782	2,951	3,330
NIH	1,907	2,068	2,346	2,464	2,471	2,649	2,763	3,101
Other HHS	226	186	135	155	155	133	188	229
NASA	1,424	1,270	1,046	999	1,007	1,016	1,120	999
NSF	6,747	6,838	6,907	6,628	6,724	6,838	7,625	8,368
USDA	408	333	332	304	300	299	283	335
Other	3,422	3,230	3,220	3,331	3,341	3,166	3,564	3,997
Institutional	30,549	29,289	30,253	32,098	32,394	34,788	34,741	34,776
Other nonfederal	9,780	9,710	9,709	9,371	9,472	9,530	10,089	10,065
Domestic	8,896	8,866	8,873	8,327	8,408	8,067	8,610	8,501
Foreign	884	844	836	1,044	1,064	1,463	1,479	1,564
Self-support	23,097	22,077	23,921	27,458	27,971	30,058	33,840	36,438
Aerospace engineering	3,190	3,150	3,291	3,379	3,379	3,588	3,845	4,187
Federal	1,214	1,215	1,157	1,135	1,135	1,236	1,346	1,371
DOD	537	557	540	482	482	509	588	645
DOE	50	42	42	47	47	47	43	63
HHS	12	16	17	19	19	12	13	10
NIH	10	15	15	15	15	11	13	10
Other HHS	2	1	2	4	4	1	0	0
NASA	423	382	318	336	336	382	434	345
NSF	116	135	139	131	131	140	143	183
USDA	0	1	1	0	0	0	0	0
Other	76	82	100	120	120	146	125	125
Institutional	909	946	950	1,040	1,040	1,218	1,152	1,222
Other nonfederal	364	281	395	479	479	265	334	343
Domestic	298	244	347	382	382	190	253	254
Foreign	66	37	48	97	97	75	81	89
Self-support	703	708	789	725	725	869	1,013	1,251
Agricultural engineering	842	855	893	917	917	1,022	1,084	1,198
Federal	239	253	268	245	245	279	298	369
DOD	9	13	15	8	8	17	33	16
DOE	0	6	9	10	10	12	26	27
HHS	14	10	7	8	8	10	12	36
NIH	3	7	4	8	8	9	9	13
Other HHS	11	3	3	0	0	1	3	23
NASA	14	7	16	9	9	4	5	8
NSF	25	25	21	30	30	33	39	56

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
USDA	136	121	149	113	113	119	116	140
Other	41	71	51	67	67	84	67	86
Institutional	357	377	400	451	451	492	466	454
Other nonfederal	135	126	106	126	126	129	148	118
Domestic	122	113	97	112	112	96	129	93
Foreign	13	13	9	14	14	33	19	25
Self-support	111	99	119	95	95	122	172	257
Architecture[a]	na	na	na	na	3,981	5,092	5,988	5,959
Federal	na	na	na	na	38	41	104	150
DOD	na	na	na	na	9	5	4	7
DOE	na	na	na	na	2	5	4	18
HHS	na	na	na	na	0	3	3	4
NIH	na	na	na	na	0	2	2	4
Other HHS	na	na	na	na	0	1	1	0
NASA	na	na	na	na	0	0	0	0
NSF	na	na	na	na	6	7	12	18
USDA	na	na	na	na	1	3	1	1
Other	na	na	na	na	20	18	80	102
Institutional	na	na	na	na	1,545	1,955	1,957	2,107
Other nonfederal	na	na	na	na	173	163	301	222
Domestic	na	na	na	na	150	134	265	181
Foreign	na	na	na	na	23	29	36	41
Self-support	na	na	na	na	2,225	2,933	3,626	3,480
Biomedical engineering	5,015	5,232	5,641	5,885	5,908	6,260	6,840	7,375
Federal	1,527	1,639	1,807	2,089	2,100	2,230	2,447	2,709
DOD	88	87	99	93	93	122	157	152
DOE	9	18	25	26	26	42	50	49
HHS	1,002	1,137	1,245	1,412	1,423	1,542	1,618	1,803
NIH	991	1,122	1,234	1,389	1,400	1,500	1,589	1,767
Other HHS	11	15	11	23	23	42	29	36
NASA	42	32	10	15	15	14	15	24
NSF	248	252	280	306	306	352	417	508
USDA	6	5	5	6	6	5	6	16
Other	132	108	143	231	231	153	184	157
Institutional	1,550	1,649	1,828	1,933	1,945	2,175	2,270	2,354
Other nonfederal	719	676	636	527	527	633	688	693
Domestic	690	645	621	509	509	572	620	615
Foreign	29	31	15	18	18	61	68	78
Self-support	1,219	1,268	1,370	1,336	1,336	1,222	1,435	1,619
Chemical engineering	6,346	6,110	6,185	6,249	6,433	6,722	7,058	7,472
Federal	2,146	2,097	2,104	1,985	2,039	2,044	2,121	2,439
DOD	218	204	179	164	173	162	187	215
DOE	352	365	371	352	353	374	373	440
HHS	298	274	328	282	294	302	304	366
NIH	262	236	298	248	260	267	263	343
Other HHS	36	38	30	34	34	35	41	23
NASA	95	90	67	52	52	30	31	35
NSF	873	851	816	814	848	860	913	1,089
USDA	46	46	61	62	62	60	54	48
Other	264	267	282	259	257	256	259	246
Institutional	2,463	2,338	2,336	2,501	2,586	2,759	2,907	2,735
Other nonfederal	957	906	988	970	1,021	1,007	1,038	1,042
Domestic	902	864	927	811	859	861	885	909
Foreign	55	42	61	159	162	146	153	133
Self-support	780	769	757	793	787	912	992	1,256

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Civil engineering[a]	13,348	12,958	12,836	14,352	11,063	11,619	13,120	13,719
Federal	2,150	1,997	1,870	1,888	1,869	1,726	1,978	2,216
DOD	169	180	143	205	200	189	193	179
DOE	90	92	64	73	71	73	108	146
HHS	59	60	56	47	47	38	53	48
NIH	33	32	30	39	39	33	34	35
Other HHS	26	28	26	8	8	5	19	13
NASA	59	68	57	59	65	75	98	107
NSF	702	652	658	653	649	545	637	758
USDA	73	64	40	52	47	45	44	55
Other	998	881	852	799	790	761	845	923
Institutional	5,672	5,303	5,345	6,008	4,707	5,257	5,458	5,475
Other nonfederal	1,239	1,165	1,173	1,145	1,003	1,012	1,024	1,081
Domestic	1,107	1,054	1,079	1,024	897	837	863	892
Foreign	132	111	94	121	106	175	161	189
Self-support	4,287	4,493	4,448	5,311	3,484	3,624	4,660	4,947
Electrical engineering	25,783	25,002	26,259	27,522	27,646	27,813	27,792	28,605
Federal	5,964	6,021	5,975	5,809	5,866	5,888	6,248	6,557
DOD	1,966	1,946	1,937	1,906	1,923	1,969	2,046	2,088
DOE	211	236	244	213	212	186	226	320
HHS	351	360	421	402	402	418	429	431
NIH	291	314	394	378	379	394	397	396
Other HHS	60	46	27	24	23	24	32	35
NASA	333	242	215	215	215	203	204	178
NSF	2,336	2,488	2,481	2,347	2,389	2,492	2,707	2,810
USDA	54	23	21	22	20	14	11	17
Other	713	726	656	704	705	606	625	713
Institutional	8,438	8,221	8,485	8,826	8,841	8,887	8,591	8,104
Other nonfederal	2,776	3,038	2,634	2,539	2,571	2,508	2,483	2,475
Domestic	2,612	2,784	2,434	2,367	2,395	2,234	2,223	2,219
Foreign	164	254	200	172	176	274	260	256
Self-support	8,605	7,722	9,165	10,348	10,368	10,530	10,470	11,469
Engineering science	1,712	1,589	1,639	1,437	1,402	1,444	1,450	1,478
Federal	556	593	581	434	424	453	471	460
DOD	166	164	126	96	96	95	95	81
DOE	65	78	100	77	77	84	109	98
HHS	42	55	58	48	48	51	33	44
NIH	37	46	56	44	44	51	30	44
Other HHS	5	9	2	4	4	0	3	0
NASA	22	20	24	13	13	15	19	19
NSF	207	234	230	166	155	167	178	164
USDA	14	1	1	3	3	5	2	2
Other	40	41	42	31	32	36	35	52
Institutional	753	634	617	615	590	542	548	541
Other nonfederal	176	177	175	103	104	109	125	156
Domestic	157	159	158	95	96	85	105	134
Foreign	19	18	17	8	8	24	20	22
Self-support	227	185	266	285	284	340	306	321
Industrial engineering	6,352	5,822	6,171	6,727	7,109	7,852	7,878	7,829
Federal	957	934	887	769	820	871	996	1,166
DOD	299	336	316	249	268	250	326	377
DOE	45	46	46	32	34	73	55	81
HHS	66	68	65	81	81	78	103	123
NIH	43	56	54	53	52	68	80	97
Other HHS	23	12	11	28	29	10	23	26
NASA	42	48	20	23	28	23	29	28
NSF	328	285	278	249	275	289	309	320

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
USDA	12	9	9	8	8	7	11	6
Other	165	142	153	127	126	151	163	231
Institutional	2,284	2,084	2,255	2,221	2,268	2,567	2,335	2,210
Other nonfederal	592	553	536	506	572	672	647	646
Domestic	512	495	465	407	434	561	518	506
Foreign	80	58	71	99	138	111	129	140
Self-support	2,519	2,251	2,493	3,231	3,449	3,742	3,900	3,807
Mechanical engineering	12,478	11,984	12,408	12,913	12,903	13,456	15,215	16,257
Federal	3,157	3,092	3,228	3,179	3,175	3,167	3,619	4,112
DOD	730	700	777	849	847	852	965	979
DOE	360	342	391	331	331	371	386	585
HHS	179	186	187	190	190	193	221	262
NIH	154	159	171	168	168	183	199	232
Other HHS	25	27	16	22	22	10	22	30
NASA	282	258	217	189	189	193	213	212
NSF	1,036	1,053	1,091	1,076	1,074	1,068	1,255	1,365
USDA	22	19	11	17	17	15	16	22
Other	548	534	554	527	527	475	563	687
Institutional	4,918	4,614	4,816	4,995	4,999	5,215	5,539	5,772
Other nonfederal	1,474	1,383	1,515	1,471	1,459	1,479	1,706	1,725
Domestic	1,322	1,255	1,361	1,314	1,303	1,197	1,435	1,403
Foreign	152	128	154	157	156	282	271	322
Self-support	2,929	2,895	2,849	3,268	3,270	3,595	4,351	4,648
Metallurgical/materials engineering	4,338	4,491	4,606	4,647	4,593	4,784	5,166	5,519
Federal	1,590	1,587	1,628	1,601	1,618	1,690	2,020	2,111
DOD	376	364	369	401	404	388	398	430
DOE	270	319	318	254	261	287	346	433
HHS	50	36	58	64	58	75	85	105
NIH	43	31	57	62	56	75	82	88
Other HHS	7	5	1	2	2	0	3	17
NASA	52	58	52	30	30	33	32	20
NSF	657	639	661	606	615	645	768	809
USDA	4	7	6	5	5	11	16	12
Other	181	164	164	241	245	251	375	302
Institutional	1,511	1,604	1,581	1,675	1,621	1,695	1,646	1,688
Other nonfederal	730	775	815	793	768	761	622	679
Domestic	657	705	755	708	685	633	497	584
Foreign	73	70	60	85	83	128	125	95
Self-support	507	525	582	578	586	638	878	1,041
Mining engineering	229	200	177	199	132	201	205	353
Federal	49	36	28	37	26	23	31	60
DOD	0	1	1	3	0	0	0	0
DOE	18	17	14	10	10	12	6	16
HHS	13	1	1	5	7	4	14	23
NIH	1	0	1	3	5	3	10	14
Other HHS	12	1	0	2	2	1	4	9
NASA	0	2	0	0	0	0	0	1
NSF	7	4	2	5	0	1	4	5
USDA	2	1	1	0	0	0	0	0
Other	9	10	9	14	9	6	7	15
Institutional	105	102	87	83	67	70	60	164
Other nonfederal	18	15	12	23	20	68	72	24
Domestic	16	13	11	23	20	68	72	24
Foreign	2	2	1	0	0	0	0	0
Self-support	57	47	50	56	19	40	42	105

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Nuclear engineering	809	840	910	960	951	941	968	1,123
Federal	336	368	338	328	326	335	403	503
DOD	48	48	48	35	35	46	60	83
DOE	197	231	208	212	212	182	208	242
HHS	12	12	8	11	9	9	10	7
NIH	6	12	8	10	8	9	10	7
Other HHS	6	0	0	1	1	0	0	0
NASA	13	10	9	16	16	7	10	6
NSF	7	10	5	19	19	17	18	24
USDA	0	0	0	0	0	0	0	0
Other	59	57	60	35	35	74	97	141
Institutional	272	234	337	376	370	345	268	320
Other nonfederal	102	112	102	113	113	127	164	151
Domestic	99	100	89	101	101	100	153	144
Foreign	3	12	13	12	12	27	11	7
Self-support	99	126	133	143	142	134	133	149
Petroleum engineering	658	629	642	786	786	822	988	1,058
Federal	58	97	64	100	100	28	37	68
DOD	2	0	1	0	0	0	0	0
DOE	47	86	51	73	73	15	28	61
HHS	1	0	0	1	1	0	0	0
NIH	0	0	0	0	0	0	0	0
Other HHS	1	0	0	1	1	0	0	0
NASA	0	2	0	7	7	0	0	0
NSF	3	4	5	9	9	3	2	2
USDA	1	3	1	0	0	1	1	1
Other	4	2	6	10	10	9	6	4
Institutional	302	178	203	247	247	258	312	304
Other nonfederal	142	224	248	275	275	349	423	420
Domestic	78	185	192	215	215	282	320	294
Foreign	64	39	56	60	60	67	103	126
Self-support	156	130	127	164	164	187	216	266
Engineering, nec	3,516	3,379	3,476	3,861	3,708	3,461	3,898	4,302
Federal	1,247	1,236	1,316	1,308	1,293	690	706	864
DOD	691	726	780	778	774	160	166	180
DOE	43	36	51	47	45	73	96	115
HHS	34	39	30	49	39	47	53	68
NIH	33	38	24	47	37	44	45	51
Other HHS	1	1	6	2	2	3	8	17
NASA	47	51	41	35	32	37	30	16
NSF	202	206	240	217	218	219	223	257
USDA	38	33	26	16	18	14	5	15
Other	192	145	148	166	167	140	133	213
Institutional	1,015	1,005	1,013	1,127	1,117	1,353	1,232	1,326
Other nonfederal	356	279	374	301	261	248	314	290
Domestic	324	250	337	259	250	217	272	249
Foreign	32	29	37	42	11	31	42	41
Self-support	898	859	773	1,125	1,037	1,170	1,646	1,822
Health[a,b]	55,329	57,827	61,756	61,292	59,288	59,943	52,287	46,868
Federal	9,161	8,628	9,209	8,476	7,643	6,520	5,516	5,718
DOD	328	347	361	334	323	316	238	274
DOE	16	16	27	36	34	24	14	24
HHS	6,963	6,608	6,697	6,231	5,443	4,407	3,956	4,171
NIH	4,298	4,067	4,257	4,283	3,493	3,084	2,933	3,172
Other HHS	2,665	2,541	2,440	1,948	1,950	1,323	1,023	999
NASA	25	20	14	8	7	8	3	93
NSF	169	208	283	222	198	206	169	193

TABLE 19. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
USDA	84	87	98	75	89	68	81	100
Other	1,576	1,342	1,729	1,570	1,549	1,491	1,055	863
Institutional	12,111	13,113	13,787	15,325	14,758	14,214	12,778	12,038
Other nonfederal	2,565	2,614	3,042	2,900	2,800	2,277	2,439	2,098
Domestic	2,321	2,423	2,861	2,653	2,558	2,029	2,147	1,755
Foreign	244	191	181	247	242	248	292	343
Self-support	31,492	33,472	35,718	34,591	34,087	36,932	31,554	27,014

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

Field and primary mechanism of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
All surveyed fields	377,984	381,198	393,138	403,722	409,421	422,287	428,856	433,252
Fellowships	34,672	36,026	36,332	37,862	38,149	38,363	38,769	39,719
Research assistantships	112,826	112,367	112,825	113,253	114,067	116,310	119,393	121,525
Teaching assistantships	71,286	72,479	74,204	76,038	78,080	81,399	80,028	81,154
Traineeships	14,403	14,217	14,277	13,123	13,180	12,975	12,693	12,263
Other types of support	144,797	146,109	155,500	163,446	165,945	173,240	177,973	178,591
Self-support	119,485	121,226	127,741	134,541	136,738	145,620	149,613	150,312
Other	25,312	24,883	27,759	28,905	29,207	27,620	28,360	28,279
Science and engineering	322,655	323,371	331,382	342,430	350,133	362,344	376,569	386,384
Fellowships	31,879	33,231	33,345	34,430	35,158	35,625	36,158	37,260
Research assistantships	105,791	105,136	105,604	106,018	107,360	109,825	112,936	115,028
Teaching assistantships	67,569	68,588	70,003	71,459	73,762	77,384	76,589	77,631
Traineeships	9,820	9,873	9,724	9,249	9,558	9,882	9,930	9,790
Other types of support	107,596	106,543	112,706	121,274	124,295	129,628	140,956	146,675
Self-support	87,993	87,754	92,023	99,950	102,651	108,688	118,059	123,298
Other	19,603	18,789	20,683	21,324	21,644	20,940	22,897	23,377
Science	238,039	241,130	246,248	252,596	259,222	267,267	275,074	279,950
Fellowships	24,710	26,013	26,194	26,612	27,290	27,651	28,013	28,508
Research assistantships	70,093	70,503	70,556	71,015	72,020	72,654	73,186	73,986
Teaching assistantships	55,572	56,844	57,960	59,063	61,252	64,103	63,655	64,407
Traineeships	8,879	8,856	8,732	8,328	8,637	9,003	9,041	8,927
Other types of support	78,785	78,914	82,806	87,578	90,023	93,856	101,179	104,122
Self-support	64,896	65,677	68,102	72,492	74,680	78,630	84,219	86,860
Other	13,889	13,237	14,704	15,086	15,343	15,226	16,960	17,262
Agricultural sciences	9,509	9,185	8,977	9,103	9,276	9,564	10,246	10,505
Fellowships	599	656	555	654	678	691	719	712
Research assistantships	5,779	5,473	5,319	5,383	5,544	5,528	5,492	5,633
Teaching assistantships	1,154	1,148	1,163	1,172	1,188	1,295	1,353	1,415
Traineeships	68	20	50	33	33	25	31	43
Other types of support	1,909	1,888	1,890	1,861	1,833	2,025	2,651	2,702
Self-support	1,516	1,523	1,439	1,474	1,425	1,579	2,147	2,218
Other	393	365	451	387	408	446	504	484
Biological sciences	54,139	55,836	57,082	58,011	58,327	58,501	59,235	60,028
Fellowships	6,580	7,053	6,760	6,618	6,651	6,743	6,497	6,735
Research assistantships	23,674	24,349	24,783	24,682	24,448	23,890	23,735	24,149
Teaching assistantships	8,457	8,712	9,022	9,349	9,359	9,215	9,231	9,248
Traineeships	5,611	5,710	5,510	5,581	5,615	5,889	5,890	5,562
Other types of support	9,817	10,012	11,007	11,781	12,254	12,764	13,882	14,334
Self-support	7,013	7,170	7,650	8,535	9,046	9,595	10,134	10,704
Other	2,804	2,842	3,357	3,246	3,208	3,169	3,748	3,630
Communication[a]	ne	ne	ne	ne	4,049	4,642	5,429	5,588
Fellowships	ne	ne	ne	ne	170	216	292	280
Research assistantships	ne	ne	ne	ne	549	588	582	485
Teaching assistantships	ne	ne	ne	ne	1,698	2,034	2,111	2,247
Traineeships	ne	ne	ne	ne	25	12	19	27
Other types of support	ne	ne	ne	ne	1,607	1,792	2,425	2,549
Self-support	ne	ne	ne	ne	1,421	1,523	2,088	2,266
Other	ne	ne	ne	ne	186	269	337	283
Computer sciences	27,204	26,524	26,937	28,285	27,874	28,850	29,669	30,080
Fellowships	1,378	1,449	1,463	1,472	1,456	1,672	1,882	1,501
Research assistantships	7,068	7,053	7,084	7,155	6,921	7,225	7,454	7,760
Teaching assistantships	4,615	4,506	4,374	4,484	4,446	4,696	4,563	4,446
Traineeships	285	230	181	157	157	148	167	188

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

Field and primary mechanism of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Other types of support	13,858	13,286	13,835	15,017	14,894	15,109	15,603	16,185
Self-support	11,832	11,036	11,776	12,915	12,806	13,191	13,429	14,007
Other	2,026	2,250	2,059	2,102	2,088	1,918	2,174	2,178
Earth, atmospheric, and ocean sciences	11,265	10,999	11,102	10,973	10,570	10,874	11,211	11,868
Fellowships	1,222	1,355	1,300	1,267	1,179	1,275	1,259	1,293
Research assistantships	4,713	4,655	4,664	4,601	4,409	4,487	4,628	4,878
Teaching assistantships	2,590	2,560	2,704	2,625	2,568	2,728	2,674	2,696
Traineeships	119	111	106	70	74	79	67	77
Other types of support	2,621	2,318	2,328	2,410	2,340	2,305	2,583	2,924
Self-support	2,049	1,939	1,971	2,002	1,948	1,974	2,168	2,430
Other	572	379	357	408	392	331	415	494
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	1,489	1,754	1,903	2,118
Fellowships	ne	ne	ne	ne	90	117	133	143
Research assistantships	ne	ne	ne	ne	334	385	434	407
Teaching assistantships	ne	ne	ne	ne	429	517	464	585
Traineeships	ne	ne	ne	ne	9	0	1	15
Other types of support	ne	ne	ne	ne	627	735	871	968
Self-support	ne	ne	ne	ne	577	602	759	808
Other	ne	ne	ne	ne	50	133	112	160
Mathematical sciences	14,357	14,652	14,995	15,311	15,013	15,636	16,328	16,917
Fellowships	1,333	1,414	1,529	1,550	1,541	1,573	1,708	1,720
Research assistantships	1,869	1,847	1,765	1,841	1,784	1,821	1,931	1,981
Teaching assistantships	7,874	8,041	8,064	8,226	8,178	8,547	8,494	8,643
Traineeships	105	95	98	125	128	156	139	176
Other types of support	3,176	3,255	3,539	3,569	3,382	3,539	4,056	4,397
Self-support	2,571	2,626	2,888	3,042	2,859	3,016	3,478	3,825
Other	605	629	651	527	523	523	578	572
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	2,076	2,818	3,420	4,482
Fellowships	ne	ne	ne	ne	261	531	626	850
Research assistantships	ne	ne	ne	ne	514	527	615	830
Teaching assistantships	ne	ne	ne	ne	280	406	483	674
Traineeships	ne	ne	ne	ne	39	46	45	56
Other types of support	ne	ne	ne	ne	982	1,308	1,651	2,072
Self-support	ne	ne	ne	ne	843	1,050	1,380	1,757
Other	ne	ne	ne	ne	139	258	271	315
Neuroscience[a]	na	na	na	na	1,529	1,908	2,261	2,682
Fellowships	na	na	na	na	372	381	462	655
Research assistantships	na	na	na	na	634	832	955	997
Teaching assistantships	na	na	na	na	199	177	198	214
Traineeships	na	na	na	na	211	349	426	506
Other types of support	na	na	na	na	113	169	220	310
Self-support	na	na	na	na	68	96	84	150
Other	na	na	na	na	45	73	136	160
Physical sciences	31,267	31,921	32,368	32,548	32,327	32,747	33,671	34,280
Fellowships	2,707	2,760	3,073	3,119	3,106	2,862	2,895	3,314
Research assistantships	13,610	13,921	13,809	13,795	13,676	13,961	14,354	14,217
Teaching assistantships	12,108	12,455	12,449	12,489	12,474	12,939	12,788	12,951
Traineeships	366	420	436	417	415	390	432	395
Other types of support	2,476	2,365	2,601	2,728	2,656	2,595	3,202	3,403
Self-support	1,531	1,671	1,760	1,850	1,779	1,930	2,357	2,601
Other	945	694	841	878	877	665	845	802
Psychology[b]	32,111	32,781	32,944	34,801	34,286	35,866	34,585	33,566
Fellowships	2,317	2,443	2,543	2,307	2,252	2,130	2,027	2,062
Research assistantships	5,540	5,363	5,284	5,592	5,424	5,646	5,251	5,144
Teaching assistantships	5,658	5,944	6,259	6,276	6,171	6,381	6,348	6,236

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

Field and primary mechanism of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Traineeships	876	1,035	1,032	929	920	913	1,042	1,004
Other types of support	17,720	17,996	17,826	19,697	19,519	20,796	19,917	19,120
Self-support	14,943	15,476	15,298	16,341	16,171	18,009	17,234	16,456
Other	2,777	2,520	2,528	3,356	3,348	2,787	2,683	2,664
Social sciences	58,187	59,232	61,843	63,564	62,406	64,107	67,116	67,836
Fellowships	8,574	8,883	8,971	9,625	9,534	9,460	9,513	9,243
Research assistantships	7,840	7,842	7,848	7,966	7,783	7,764	7,755	7,505
Teaching assistantships	13,116	13,478	13,925	14,442	14,262	15,168	14,948	15,052
Traineeships	1,449	1,235	1,319	1,016	1,011	996	782	878
Other types of support	27,208	27,794	29,780	30,515	29,816	30,719	34,118	35,158
Self-support	23,441	24,236	25,320	26,333	25,737	26,065	28,961	29,638
Other	3,767	3,558	4,460	4,182	4,079	4,654	5,157	5,520
Engineering	84,616	82,241	85,134	89,834	90,911	95,077	101,495	106,434
Fellowships	7,169	7,218	7,151	7,818	7,868	7,974	8,145	8,752
Research assistantships	35,698	34,633	35,048	35,003	35,340	37,171	39,750	41,042
Teaching assistantships	11,997	11,744	12,043	12,396	12,510	13,281	12,934	13,224
Traineeships	941	1,017	992	921	921	879	889	863
Other types of support	28,811	27,629	29,900	33,696	34,272	35,772	39,777	42,553
Self-support	23,097	22,077	23,921	27,458	27,971	30,058	33,840	36,438
Other	5,714	5,552	5,979	6,238	6,301	5,714	5,937	6,115
Aerospace engineering	3,190	3,150	3,291	3,379	3,379	3,588	3,845	4,187
Fellowships	282	260	302	386	386	334	319	363
Research assistantships	1,451	1,366	1,387	1,478	1,478	1,566	1,706	1,735
Teaching assistantships	373	441	459	502	502	517	488	472
Traineeships	40	35	40	33	33	34	36	31
Other types of support	1,044	1,048	1,103	980	980	1,137	1,296	1,586
Self-support	703	708	789	725	725	869	1,013	1,251
Other	341	340	314	255	255	268	283	335
Agricultural engineering	842	855	893	917	917	1,022	1,084	1,198
Fellowships	64	59	34	40	40	62	73	59
Research assistantships	558	578	604	628	628	751	751	775
Teaching assistantships	64	69	68	61	61	50	32	63
Traineeships	11	2	11	36	36	0	2	5
Other types of support	145	147	176	152	152	159	226	296
Self-support	111	99	119	95	95	122	172	257
Other	34	48	57	57	57	37	54	39
Architecture[a]	na	na	na	na	3,981	5,092	5,988	5,959
Fellowships	na	na	na	na	335	395	387	486
Research assistantships	na	na	na	na	330	306	330	372
Teaching assistantships	na	na	na	na	723	900	848	879
Traineeships	na	na	na	na	10	1	4	4
Other types of support	na	na	na	na	2,583	3,490	4,419	4,218
Self-support	na	na	na	na	2,225	2,933	3,626	3,480
Other	na	na	na	na	358	557	793	738
Biomedical engineering	5,015	5,232	5,641	5,885	5,908	6,260	6,840	7,375
Fellowships	838	778	812	815	819	938	1,014	1,102
Research assistantships	2,047	2,231	2,432	2,548	2,559	2,969	3,259	3,444
Teaching assistantships	458	458	480	518	518	535	527	554
Traineeships	304	336	360	361	361	347	382	427
Other types of support	1,368	1,429	1,557	1,643	1,651	1,471	1,658	1,848
Self-support	1,219	1,268	1,370	1,336	1,336	1,222	1,435	1,619
Other	149	161	187	307	315	249	223	229
Chemical engineering	6,346	6,110	6,185	6,249	6,433	6,722	7,058	7,472
Fellowships	689	648	677	772	814	864	834	860
Research assistantships	3,749	3,593	3,652	3,598	3,702	3,789	4,063	4,158

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

Field and primary mechanism of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Teaching assistantships	786	757	742	765	810	835	841	816
Traineeships	102	123	114	72	69	78	90	90
Other types of support	1,020	989	1,000	1,042	1,038	1,156	1,230	1,548
Self-support	780	769	757	793	787	912	992	1,256
Other	240	220	243	249	251	244	238	292
Civil engineering[a]	13,348	12,958	12,836	14,352	11,063	11,619	13,120	13,719
Fellowships	1,092	1,094	1,035	1,235	931	938	950	1,056
Research assistantships	4,858	4,440	4,339	4,461	4,262	4,386	4,893	4,949
Teaching assistantships	2,082	1,984	2,129	2,283	1,604	1,825	1,774	1,922
Traineeships	152	159	148	158	148	175	103	32
Other types of support	5,164	5,281	5,185	6,215	4,118	4,295	5,400	5,760
Self-support	4,287	4,493	4,448	5,311	3,484	3,624	4,660	4,947
Other	877	788	737	904	634	671	740	813
Electrical engineering	25,783	25,002	26,259	27,522	27,646	27,813	27,792	28,605
Fellowships	1,504	1,558	1,520	1,769	1,767	1,666	1,604	1,620
Research assistantships	10,136	10,176	9,834	9,623	9,706	10,070	10,475	10,553
Teaching assistantships	3,881	3,822	3,806	3,805	3,831	3,927	3,793	3,634
Traineeships	112	140	90	48	48	54	43	73
Other types of support	10,150	9,306	11,009	12,277	12,294	12,096	11,877	12,725
Self-support	8,605	7,722	9,165	10,348	10,368	10,530	10,470	11,469
Other	1,545	1,584	1,844	1,929	1,926	1,566	1,407	1,256
Engineering science	1,712	1,589	1,639	1,437	1,402	1,444	1,450	1,478
Fellowships	272	306	298	233	224	194	164	175
Research assistantships	861	808	750	571	557	618	721	687
Teaching assistantships	219	173	189	183	176	118	133	155
Traineeships	22	20	29	23	23	19	7	14
Other types of support	338	282	373	427	422	495	425	447
Self-support	227	185	266	285	284	340	306	321
Other	111	97	107	142	138	155	119	126
Industrial engineering	6,352	5,822	6,171	6,727	7,109	7,852	7,878	7,829
Fellowships	436	417	413	347	419	420	430	395
Research assistantships	1,661	1,481	1,556	1,539	1,631	1,905	1,747	1,762
Teaching assistantships	923	899	952	968	996	1,063	1,000	960
Traineeships	46	51	54	62	62	51	45	64
Other types of support	3,286	2,974	3,196	3,811	4,001	4,413	4,656	4,648
Self-support	2,519	2,251	2,493	3,231	3,449	3,742	3,900	3,807
Other	767	723	703	580	552	671	756	841
Mechanical engineering	12,478	11,984	12,408	12,913	12,903	13,456	15,215	16,257
Fellowships	914	921	981	1,078	1,076	1,176	1,318	1,412
Research assistantships	5,686	5,308	5,610	5,586	5,582	5,525	6,220	6,685
Teaching assistantships	2,178	2,171	2,229	2,316	2,317	2,389	2,441	2,570
Traineeships	98	104	89	62	54	67	132	80
Other types of support	3,602	3,480	3,499	3,871	3,874	4,299	5,104	5,510
Self-support	2,929	2,895	2,849	3,268	3,270	3,595	4,351	4,648
Other	673	585	650	603	604	704	753	862
Metallurgical/materials engineering	4,338	4,491	4,606	4,647	4,593	4,784	5,166	5,519
Fellowships	556	652	547	565	532	487	498	546
Research assistantships	2,726	2,764	2,847	2,814	2,829	2,996	3,119	3,298
Teaching assistantships	407	408	455	496	451	416	438	443
Traineeships	21	23	28	29	32	37	31	23
Other types of support	628	644	729	743	749	848	1,080	1,209
Self-support	507	525	582	578	586	638	878	1,041
Other	121	119	147	165	163	210	202	168

TABLE 20. Full-time graduate students in science, engineering, and health in doctorate-granting institutions, by field and primary mechanism of support: 2004–10

Field and primary mechanism of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
Mining engineering	229	200	177	199	132	201	205	353
Fellowships	23	13	7	16	16	7	8	20
Research assistantships	92	94	62	86	74	112	108	178
Teaching assistantships	25	19	30	26	20	35	32	44
Traineeships	1	0	0	0	0	0	0	0
Other types of support	88	74	78	71	22	47	57	111
Self-support	57	47	50	56	19	40	42	105
Other	31	27	28	15	3	7	15	6
Nuclear engineering	809	840	910	960	951	941	968	1,123
Fellowships	109	122	141	142	142	141	158	187
Research assistantships	456	447	470	480	472	476	499	593
Teaching assistantships	68	62	62	85	85	76	89	92
Traineeships	6	7	6	8	8	12	9	13
Other types of support	170	202	231	245	244	236	213	238
Self-support	99	126	133	143	142	134	133	149
Other	71	76	98	102	102	102	80	89
Petroleum engineering	658	629	642	786	786	822	988	1,058
Fellowships	88	81	60	55	55	27	55	53
Research assistantships	269	302	314	410	410	435	524	550
Teaching assistantships	70	63	85	80	80	124	118	118
Traineeships	3	3	3	5	5	0	0	0
Other types of support	228	180	180	236	236	236	291	337
Self-support	156	130	127	164	164	187	216	266
Other	72	50	53	72	72	49	75	71
Engineering, nec	3,516	3,379	3,476	3,861	3,708	3,461	3,898	4,302
Fellowships	302	309	324	365	312	325	333	418
Research assistantships	1,148	1,045	1,191	1,181	1,120	1,267	1,335	1,303
Teaching assistantships	463	418	357	308	336	471	380	502
Traineeships	23	14	20	24	32	4	5	7
Other types of support	1,580	1,593	1,584	1,983	1,908	1,394	1,845	2,072
Self-support	898	859	773	1,125	1,037	1,170	1,646	1,822
Other	682	734	811	858	871	224	199	250
Health[a,b]	55,329	57,827	61,756	61,292	59,288	59,943	52,287	46,868
Fellowships	2,793	2,795	2,987	3,432	2,991	2,738	2,611	2,459
Research assistantships	7,035	7,231	7,221	7,235	6,707	6,485	6,457	6,497
Teaching assistantships	3,717	3,891	4,201	4,579	4,318	4,015	3,439	3,523
Traineeships	4,583	4,344	4,553	3,874	3,622	3,093	2,763	2,473
Other types of support	37,201	39,566	42,794	42,172	41,650	43,612	37,017	31,916
Self-support	31,492	33,472	35,718	34,591	34,087	36,932	31,554	27,014
Other	5,709	6,094	7,076	7,581	7,563	6,680	5,463	4,902

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 21. Graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
All surveyed fields	632,652	33,375	2,884	37,228	38,199	1,354	299,993	5,816	39,643	174,160
Science and engineering	556,532	28,609	2,500	32,185	31,094	1,088	255,256	4,989	34,682	166,129
Science	407,291	22,969	2,171	21,915	26,914	914	202,386	3,987	26,852	99,183
Agricultural sciences	15,656	770	146	340	482	37	9,867	109	665	3,240
Biological sciences	74,928	3,970	361	6,105	3,653	242	38,386	635	4,145	17,431
Anatomy	849	55	1	66	33	12	494	5	32	151
Biochemistry	5,308	259	30	455	187	19	2,333	26	280	1,719
Biology	17,210	1,011	76	1,066	828	42	9,246	211	1,179	3,551
Biometry/epidemiology	6,398	287	25	722	545	22	2,722	54	387	1,634
Biophysics	1,072	43	5	101	28	3	502	4	48	338
Botany	1,863	60	15	85	19	21	877	23	64	699
Cell biology	7,047	385	41	686	257	24	3,220	58	371	2,005
Ecology	1,828	71	9	51	19	5	1,313	13	137	210
Entomology/parasitology	1,116	43	6	29	21	1	703	13	35	265
Genetics	2,333	95	12	147	75	8	1,300	6	89	601
Microbiology/immunology/virology	4,896	284	30	415	244	4	2,691	39	206	983
Nutrition	5,548	289	20	409	248	9	3,268	43	274	988
Pathology	1,376	77	5	112	94	7	734	5	56	286
Pharmacology	3,101	152	11	290	228	12	1,404	16	154	834
Physiology	2,879	127	15	292	122	17	1,548	13	123	622
Zoology	896	26	7	29	12	7	635	17	40	123
Biological sciences, nec	11,208	706	53	1,150	693	29	5,396	89	670	2,422
Communication[b]	9,825	563	63	309	785	18	5,848	119	596	1,524
Computer sciences	51,546	1,455	125	3,543	2,228	59	15,604	298	2,858	25,376
Earth, atmospheric, and ocean sciences	15,655	669	102	402	328	19	10,141	146	922	2,926
Atmospheric sciences	1,455	59	5	51	51	2	902	5	58	322
Geosciences	8,251	324	69	167	132	11	5,328	79	497	1,644
Oceanography	2,556	140	10	45	29	2	1,733	27	136	434
Earth/atmospheric/ocean sciences, nec	3,393	146	18	139	116	4	2,178	35	231	526
Family and consumer sciences/ human sciences[b]	4,191	205	26	147	595	2	2,548	37	244	387
Mathematical sciences	23,136	794	51	1,501	740	34	9,722	248	1,431	8,615
Mathematics/applied mathematics	17,589	680	41	1,056	599	31	8,117	235	1,029	5,801
Statistics	5,547	114	10	445	141	3	1,605	13	402	2,814
Multidisciplinary/interdisciplinary studies[b]	7,944	617	50	343	561	8	4,199	72	857	1,237

TABLE 21. Graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Neuroscience[b]	2,798	166	10	244	86	5	1,650	13	158	466
Physical sciences	38,973	1,364	102	1,785	1,008	38	17,319	268	1,768	15,321
Astronomy	1,331	38	7	58	7	2	731	18	71	399
Chemistry	22,436	873	57	1,179	786	22	9,771	150	928	8,670
Physics	14,507	432	28	521	195	13	6,429	96	746	6,047
Physical sciences, nec	699	21	10	27	20	1	388	4	23	205
Psychology[c]	53,419	4,859	353	2,429	5,442	122	32,043	658	4,426	3,087
Clinical psychology	12,155	1,579	84	653	924	34	7,104	137	1,242	398
Psychology, general	14,022	1,019	90	704	1,282	37	8,674	188	1,001	1,027
Psychology, nec	27,242	2,261	179	1,072	3,236	51	16,265	333	2,183	1,662
Social sciences	109,220	7,537	782	4,767	11,006	330	55,059	1,384	8,782	19,573
Agricultural economics	2,180	56	2	67	56	4	900	15	63	1,017
Anthropology (cultural/social)	8,528	544	127	284	248	31	5,379	159	766	990
Economics (except agricultural)	14,317	492	27	716	436	11	4,707	98	657	7,173
Geography	5,059	177	25	147	139	8	3,375	43	345	800
History and philosophy of science	705	26	2	16	43	2	498	8	35	75
Linguistics	3,132	149	29	186	61	8	1,458	56	235	950
Political science	45,045	3,344	257	2,089	5,759	162	22,933	559	4,417	5,525
Sociology	9,883	929	62	431	1,189	21	5,277	153	605	1,216
Sociology/anthropology	329	28	2	5	56	0	187	3	35	13
Social sciences, nec	20,042	1,792	249	826	3,019	83	10,345	290	1,624	1,814
Engineering	149,241	5,640	329	10,270	4,180	174	52,870	1,002	7,830	66,946
Aerospace engineering	5,540	240	11	416	92	3	2,702	49	380	1,647
Agricultural engineering	1,457	30	4	38	33	0	528	6	42	776
Architecture[b]	6,795	420	36	361	277	8	3,928	95	423	1,247
Biomedical engineering	8,497	325	19	1,185	240	17	3,526	77	414	2,694
Chemical engineering	8,668	279	18	588	164	16	2,872	40	295	4,396
Civil engineering[b]	19,559	1,091	55	1,244	594	42	8,245	270	941	7,077
Electrical engineering	41,336	1,157	48	2,956	937	29	9,035	157	1,790	25,227
Engineering science	2,071	65	3	146	44	0	784	24	119	886
Industrial engineering	15,205	677	43	914	708	14	5,011	63	1,598	6,177
Mechanical engineering	22,509	827	46	1,328	456	24	9,135	129	1,041	9,523
Metallurgical/materials engineering	6,274	170	12	416	130	2	2,252	31	184	3,077
Mining engineering	419	5	2	4	12	0	160	2	12	222
Nuclear engineering	1,459	53	4	68	23	2	912	13	88	296
Petroleum engineering	1,295	23	0	42	29	0	184	2	13	1,002
Engineering, nec	8,157	278	28	564	441	17	3,596	44	490	2,699

TABLE 21. Graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Health	76,120	4,766	384	5,043	7,105	266	44,737	827	4,961	8,031
Clinical medicine	25,699	1,854	142	2,281	3,724	100	12,639	340	1,836	2,783
Anesthesiology	325	13	0	16	8	0	251	3	34	0
Cardiology	51	0	0	3	5	0	24	0	0	19
Endocrinology	53	1	0	6	6	1	24	0	4	11
Gastroenterology	7	0	0	1	1	0	4	0	1	0
Hematology	6	0	0	0	0	0	4	0	0	2
Neurology[b]	1,056	47	5	84	40	9	590	9	76	196
Obstetrics/gynecology	79	11	0	10	3	0	40	1	3	11
Oncology/cancer research	232	9	0	22	14	0	130	2	13	42
Ophthalmology	5	0	0	1	0	0	3	0	0	1
Otorhinolaryngology	4	0	0	2	0	0	0	0	0	2
Pediatrics	211	12	2	17	6	0	125	4	11	34
Preventive medicine/community health	20,445	1,509	118	1,813	3,328	87	9,693	284	1,478	2,135
Psychiatry	260	78	0	11	48	0	107	0	5	11
Pulmonary disease	12	1	1	1	1	0	7	0	1	0
Radiology	396	14	2	26	10	1	211	4	38	90
Surgery	59	3	0	1	3	0	27	19	1	5
Clinical medicine, nec	2,498	156	14	267	251	2	1,399	14	171	224
Other health[c]	50,421	2,912	242	2,762	3,381	166	32,098	487	3,125	5,248
Dental sciences	1,661	84	11	211	41	5	775	8	67	459
Nursing	12,107	728	90	742	1,152	45	7,873	154	953	370
Pharmaceutical sciences	4,291	146	15	338	237	7	1,380	6	150	2,012
Speech pathology/audiology	14,645	909	48	484	584	33	11,163	130	871	423
Veterinary sciences	2,211	65	7	83	71	4	1,229	13	107	632
Other health, nec	15,506	980	71	904	1,296	72	9,678	176	977	1,352

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
All surveyed fields	297,171	18,364	1,647	18,014	24,844	754	149,137	3,197	19,278	61,936
Science and engineering	240,481	14,813	1,351	14,386	19,160	554	114,557	2,578	15,596	57,486
Science	206,028	13,352	1,266	11,648	17,860	507	103,553	2,332	14,013	41,497
Agricultural sciences	7,819	412	87	199	277	20	4,835	71	352	1,566
Biological sciences	42,571	2,447	213	3,546	2,474	129	21,473	395	2,364	9,530
Anatomy	432	27	1	39	16	6	255	2	12	74
Biochemistry	2,655	153	16	250	120	10	1,051	19	128	908
Biology	9,582	618	42	604	572	19	4,918	130	670	2,009
Biometry/epidemiology	3,747	190	17	403	360	13	1,650	35	233	846
Biophysics	376	9	4	45	13	2	149	1	16	137
Botany	979	38	9	49	13	8	442	12	26	382
Cell biology	3,823	224	25	392	159	20	1,672	28	198	1,105
Ecology	1,009	44	5	33	14	2	732	9	77	93
Entomology/parasitology	550	26	2	18	7	0	355	9	14	119
Genetics	1,373	49	6	100	47	5	779	6	57	324
Microbiology/immunology/virology	2,849	183	18	260	158	2	1,515	23	125	565
Nutrition	4,479	247	16	315	215	7	2,711	34	242	692
Pathology	835	46	4	69	68	3	450	5	37	153
Pharmacology	1,755	87	6	163	153	5	779	9	88	465
Physiology	1,466	67	6	142	88	10	747	7	62	337
Zoology	508	11	2	18	7	2	366	11	22	69
Biological sciences, nec	6,153	428	34	646	464	15	2,902	55	357	1,252
Communication[b]	6,353	367	45	221	541	12	3,662	81	378	1,046
Computer sciences	12,807	334	31	980	822	13	3,133	81	654	6,759
Earth, atmospheric, and ocean sciences	7,200	336	46	215	158	13	4,731	83	433	1,185
Atmospheric sciences	484	24	0	18	15	1	258	2	25	141
Geosciences	3,493	156	32	83	57	8	2,292	39	222	604
Oceanography	1,423	73	7	33	18	1	1,006	19	63	203
Earth/atmospheric/ocean sciences, nec	1,800	83	7	81	68	3	1,175	23	123	237
Family and consumer sciences/human sciences[b]	3,461	166	20	123	511	1	2,099	29	208	304
Mathematical sciences	8,127	277	19	617	319	16	3,125	97	467	3,190
Mathematics/applied mathematics	5,768	235	17	388	255	15	2,594	92	327	1,845
Statistics	2,359	42	2	229	64	1	531	5	140	1,345
Multidisciplinary/interdisciplinary studies[b]	4,493	390	29	200	381	8	2,329	51	489	616

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Neuroscience[b]	1,474	97	4	128	51	2	857	7	79	249
Physical sciences	12,826	506	37	738	514	16	5,267	98	545	5,105
Astronomy	423	11	3	24	3	1	242	6	25	108
Chemistry	9,261	419	24	575	454	11	3,747	68	375	3,588
Physics	2,899	69	6	127	50	3	1,141	22	137	1,344
Physical sciences, nec	243	7	4	12	7	1	137	2	8	65
Psychology[c]	40,238	3,720	266	1,868	4,478	92	23,716	506	3,312	2,280
Clinical psychology	9,455	1,245	64	520	757	28	5,447	106	970	318
Psychology, general	9,992	730	67	518	1,026	26	6,066	138	708	713
Psychology, nec	20,791	1,745	135	830	2,695	38	12,203	262	1,634	1,249
Social sciences	58,659	4,300	469	2,813	7,334	185	28,326	833	4,732	9,667
Agricultural economics	927	25	1	33	19	3	356	9	24	457
Anthropology (cultural/social)	5,490	357	78	194	189	19	3,465	108	494	586
Economics (except agricultural)	5,214	150	8	288	155	3	1,327	38	194	3,051
Geography	2,172	74	13	89	71	4	1,396	27	142	356
History and philosophy of science	316	12	1	10	23	1	213	3	14	39
Linguistics	1,888	91	19	126	39	4	819	27	139	624
Political science	23,970	1,880	153	1,243	3,834	87	11,344	327	2,354	2,748
Sociology	6,326	569	33	293	841	17	3,355	99	394	725
Sociology/anthropology	218	16	1	3	45	0	125	1	16	11
Social sciences, nec	12,138	1,126	162	534	2,118	47	5,926	194	961	1,070
Engineering	34,453	1,461	85	2,738	1,300	47	11,004	246	1,583	15,989
Aerospace engineering	784	36	4	56	17	2	375	12	49	233
Agricultural engineering	509	10	3	16	16	0	145	4	12	303
Architecture[b]	3,044	182	15	206	121	3	1,641	43	185	648
Biomedical engineering	3,133	120	7	437	129	5	1,227	28	149	1,031
Chemical engineering	2,722	104	2	219	65	4	753	10	73	1,492
Civil engineering[b]	5,571	370	22	404	206	14	2,235	59	244	2,017
Electrical engineering	7,193	151	4	548	174	6	851	21	252	5,186
Engineering science	438	12	0	31	9	0	132	2	23	229
Industrial engineering	3,684	190	8	253	231	3	1,033	16	295	1,655
Mechanical engineering	3,186	132	7	251	109	5	1,160	25	144	1,353
Metallurgical/materials engineering	1,754	55	5	143	57	0	570	11	39	874
Mining engineering	77	2	0	0	4	0	30	1	2	38
Nuclear engineering	228	13	0	16	9	1	126	3	13	47
Petroleum engineering	235	7	0	4	6	0	31	1	1	185
Engineering, nec	1,895	77	8	154	147	4	695	10	102	698

TABLE 22. Female graduate students in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Health	56,690	3,551	296	3,628	5,684	200	34,580	619	3,682	4,450
Clinical medicine	17,857	1,320	105	1,593	2,926	75	8,756	240	1,271	1,571
Anesthesiology	193	6	0	7	5	0	156	2	17	0
Cardiology	22	0	0	1	4	0	9	0	0	8
Endocrinology	31	1	0	1	5	1	15	0	3	5
Gastroenterology	3	0	0	0	1	0	2	0	0	0
Hematology	3	0	0	0	0	0	3	0	0	0
Neurology[b]	552	22	2	51	21	6	305	4	41	100
Obstetrics/gynecology	61	8	0	7	2	0	32	1	3	8
Oncology/cancer research	136	6	0	11	9	0	74	1	9	26
Ophthalmology	1	0	0	0	0	0	1	0	0	0
Otorhinolaryngology	2	0	0	1	0	0	0	0	0	1
Pediatrics	161	8	2	16	3	0	102	3	8	19
Preventive medicine/community health	14,865	1,098	88	1,320	2,658	67	7,070	208	1,100	1,256
Psychiatry	207	62	0	10	40	0	84	0	5	6
Pulmonary disease	8	0	1	1	0	0	5	0	1	0
Radiology	124	6	1	12	3	0	63	0	10	29
Surgery	29	1	0	0	1	0	15	10	1	1
Clinical medicine, nec	1,459	102	11	155	174	1	820	11	73	112
Other health[c]	38,833	2,231	191	2,035	2,758	125	25,824	379	2,411	2,879
Dental sciences	744	45	2	102	21	4	299	3	33	235
Nursing	10,932	614	81	653	1,076	36	7,176	141	833	322
Pharmaceutical sciences	2,227	81	11	205	155	2	723	5	64	981
Speech pathology/audiology	13,531	791	43	428	537	28	10,426	119	800	359
Veterinary sciences	1,415	39	7	60	58	4	855	12	79	301
Other health, nec	9,984	661	47	587	911	51	6,345	99	602	681

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
All institutions[b]	407,291	22,969	2,171	21,915	26,914	914	202,386	3,987	26,852	99,183
New England	29,203	946	99	1,674	938	38	13,679	290	3,128	8,411
Connecticut	6,519	226	20	296	268	0	3,155	36	754	1,764
Central CT State U.	415	24	1	24	25	0	299	7	13	22
CT C.	7	0	0	0	1	0	6	0	0	0
Quinnipiac U.	148	4	1	13	7	0	75	0	19	29
Rensselaer Polytechnic U., Hartford	37	7	0	6	2	0	21	0	1	0
Sacred Heart U.	145	3	1	8	4	0	58	0	7	64
Southern CT State U.	427	17	1	10	33	0	329	7	24	6
St. Joseph C., West Hartford	202	1	0	4	6	0	54	0	137	0
U. Bridgeport	458	13	1	13	21	0	194	16	0	200
U. CT	1,999	68	7	92	60	0	1,005	3	101	663
U. Hartford	163	7	0	12	14	0	101	0	22	7
U. New Haven	553	33	3	13	50	0	284	0	55	115
Wesleyan U.	133	3	0	4	1	0	69	2	5	49
Western CT State U.	30	2	0	0	1	0	20	0	7	0
Yale U.	1,802	44	5	97	43	0	640	1	363	609
Maine	561	1	2	8	0	5	388	5	72	80
U. ME	561	1	2	8	0	5	388	5	72	80
Massachusetts	18,509	611	56	1,227	585	32	8,120	225	2,017	5,636
American International C.	128	8	0	3	35	0	74	2	2	4
Assumption C.	108	7	0	2	5	0	83	3	8	0
Boston C.	697	22	0	24	20	1	386	6	29	209
Boston U.	3,787	142	9	334	138	6	1,691	61	606	800
Brandeis U.	1,125	30	1	32	26	0	348	1	203	484
Bridgewater State C.	154	0	1	3	7	1	126	1	3	12
Clark U.	469	11	1	7	15	0	187	2	60	186
Fitchburg State U.	75	0	0	0	2	0	28	0	0	45
Framingham State C.	115	0	1	5	0	0	89	0	20	0
Harvard U.	3,834	124	14	364	121	1	1,546	74	196	1,394
MA C. of Pharmacy and Health Sciences	18	0	0	1	0	0	1	0	1	15
MA Institute of Technology	2,037	96	12	199	41	0	791	25	195	678
Mt. Holyoke C.	4	0	0	1	1	0	2	0	0	0
Northeastern U.	1,181	20	4	23	24	0	303	0	324	483
Salem State U.	121	5	0	4	3	0	92	0	6	11
Smith C.	5	2	0	0	0	0	3	0	0	0
Tufts U.	860	30	2	60	32	1	541	7	20	167
U. MA, Amherst	1,536	63	6	39	45	1	670	27	140	545

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
U. MA, Boston	506	20	1	27	22	10	290	1	62	73
U. MA, Dartmouth	332	8	0	2	8	0	179	3	41	91
U. MA, Lowell	698	15	4	50	26	0	402	8	44	149
U. MA, Medical School	353	3	0	28	9	11	138	2	47	115
Williams C.	30	0	0	0	0	0	0	0	1	29
Worcester Polytechnic Institute	306	4	0	16	5	0	128	1	7	145
Worcester State C.	30	1	0	3	0	0	22	1	2	1
New Hampshire	1,192	19	7	51	12	0	664	7	106	326
Dartmouth C.	480	8	3	14	7	0	216	0	41	191
Rivier C.	42	0	0	22	1	0	16	0	3	0
U. NH	670	11	4	15	4	0	432	7	62	135
Rhode Island	1,877	64	11	70	67	1	970	7	160	527
Brown U.	1,077	39	5	51	29	1	417	6	102	427
RI C.	100	2	1	2	5	0	80	0	10	0
U. RI	700	23	5	17	33	0	473	1	48	100
Vermont	545	25	3	22	6	0	382	10	19	78
Marlboro C.	15	0	0	0	0	0	12	0	3	0
U. VT	530	25	3	22	6	0	370	10	16	78
Middle Atlantic[b]	64,188	2,918	174	4,179	4,070	99	28,580	582	5,285	18,301
New Jersey	8,732	411	13	755	555	14	3,241	45	1,233	2,465
Fairleigh Dickinson U.	883	0	0	0	0	0	0	0	584	299
Kean U.	278	38	0	22	88	0	106	1	9	14
Monmouth U.	138	13	0	3	5	0	65	3	9	40
Montclair State U.	577	57	0	26	40	1	359	1	46	47
NJ Institute of Technology	839	47	4	118	65	0	193	0	65	347
Princeton U.	1,357	40	3	91	39	1	594	17	93	479
Rutgers, State U. NJ	2,820	143	4	290	151	11	1,279	19	57	866
Seton Hall U.	795	41	1	36	101	0	306	4	258	48
Stevens Institute of Technology	376	13	1	41	8	0	91	0	60	162
U. of Medicine and Dentistry of NJ	587	15	0	121	46	1	220	0	28	156
William Paterson U.	82	4	0	7	12	0	28	0	24	7
New York	38,868	2,082	113	2,567	2,693	64	16,296	435	3,163	11,455
Adelphi U.	351	20	2	15	30	0	220	4	29	31
Albany Medical C.	110	2	0	7	4	0	75	4	1	17
Alfred U.	88	2	0	1	3	0	68	0	14	0
Clarkson U.	112	0	0	0	0	0	48	0	5	59
C. New Rochelle	411	35	4	2	121	0	52	0	197	0

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
C. of St. Rose	90	4	0	0	4	0	55	2	17	8
Columbia U. in the City of New York	2,706	74	8	231	71	6	974	13	106	1,223
Columbia U. in the City of New York, Teachers C.	1,557	128	0	171	122	8	761	45	45	277
Cornell U.	3,253	113	7	185	80	11	1,332	50	182	1,293
CUNY, Baruch C.	1,265	168	4	135	229	0	497	28	157	47
CUNY, Brooklyn C.	940	65	0	102	280	0	371	0	0	122
CUNY, C. Staten Island	135	7	0	27	8	0	61	0	32	0
CUNY, Hunter C.	639	68	4	61	74	0	383	0	0	49
CUNY, John Jay C. of Criminal Justice	64	3	0	6	4	0	47	0	4	0
CUNY, Lehman C.	41	9	0	5	6	0	17	0	0	4
CUNY, Queens C.	1,056	134	7	121	203	0	379	113	4	95
CUNY, City C.	585	81	0	73	80	0	154	0	10	187
CUNY, Graduate Ctr.	1,796	99	3	71	74	0	551	7	472	519
Fordham U.	730	51	3	35	58	0	346	6	125	106
Hofstra U.	303	9	0	26	34	1	188	1	28	16
Iona C.	101	8	1	0	8	1	51	0	30	2
Long Island U.	757	77	5	47	218	0	192	0	123	95
Marist C.	485	39	2	13	69	1	260	0	79	22
Mt. Sinai School of Medicine	175	11	0	13	2	0	73	3	1	72
New School	1,483	128	6	106	123	3	684	19	169	245
NY Institute of Technology	300	9	2	14	22	0	54	0	32	167
NY Medical C.	241	14	1	53	26	1	94	0	9	43
NY U.	3,192	140	3	301	108	0	1,146	62	261	1,171
Niagara U.	94	2	2	0	6	0	72	0	2	10
Pace U.	448	35	0	36	55	0	113	1	101	107
Polytechnic Institute of NY U.	711	17	0	44	19	0	94	0	92	445
Rensselaer Polytechnic U., Troy	432	9	0	17	10	3	216	1	14	162
Rochester Institute of Technology	1,017	23	1	29	31	0	441	2	45	445
Rockefeller U.	142	1	0	11	7	0	62	0	5	56
Russell Sage C.	78	3	0	1	5	0	54	0	14	1
Sarah Lawrence C.	12	1	0	0	0	0	9	0	1	1
St. John's U.	537	75	2	60	70	1	224	10	19	76
SUNY, Binghamton U.	1,081	37	2	41	32	0	441	0	56	472
SUNY, Buffalo State C.	13	0	0	2	1	0	9	0	1	0
SUNY, C. Brockport	143	1	0	1	14	0	126	0	0	1
SUNY, C. Fredonia	45	0	0	0	0	0	27	18	0	0
SUNY, C. New Paltz	118	6	2	1	3	0	66	3	8	29
SUNY, C. Oneonta	25	1	0	0	0	0	20	0	4	0
SUNY, C. of Environmental Science and Forestry	353	4	6	5	2	0	253	0	2	81
SUNY, C. of Optometry	42	0	0	11	0	0	20	0	0	11

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
SUNY, C. Oswego	116	4	1	1	2	0	103	2	3	0
SUNY, C. Plattsburgh	38	1	0	2	2	0	30	0	1	2
SUNY, C. Potsdam	1	0	0	0	0	0	1	0	0	0
SUNY, Downstate Medical Ctr.	67	4	0	15	6	0	22	1	0	19
SUNY, Institute of Technology, Utica/Rome	176	2	0	7	6	0	111	0	1	49
SUNY, Stony Brook U.	2,012	76	1	122	49	0	620	8	98	1,038
SUNY, U. Albany	2,183	85	8	93	122	6	1,296	8	155	410
SUNY, U. Buffalo	2,232	50	14	94	54	0	915	0	212	893
SUNY, Upstate Medical U.	114	3	0	7	3	0	52	0	2	47
Syracuse U.	1,837	58	6	67	93	3	771	11	85	743
Union C., Schenectady	21	2	0	1	2	0	12	0	1	3
U. Rochester	1,038	33	6	30	8	3	555	5	1	397
Wagner C.	11	1	0	2	0	0	8	0	0	0
Yeshiva U.	765	50	0	46	30	16	420	8	108	87
Pennsylvania[b]	16,588	425	48	857	822	21	9,043	102	889	4,381
Bloomsburg U. PA	14	0	0	1	0	0	12	0	0	1
Bryn Mawr C.	65	1	0	1	0	0	33	0	25	5
Bucknell U.	21	0	0	0	0	0	20	0	0	1
Carnegie Mellon U.	2,085	24	2	124	56	4	589	12	223	1,051
Clarion U. PA	54	0	0	1	5	0	38	0	9	1
Drexel U.	1,118	46	4	115	71	1	563	0	65	253
Duquesne U.	258	4	0	5	6	0	183	0	22	38
Edinboro U. PA	122	0	0	3	5	0	111	0	3	0
Gannon U.	138	1	0	2	5	0	80	0	6	44
Indiana U. PA	627	7	4	16	29	0	480	2	64	25
Kutztown U. PA	138	3	3	0	15	0	107	0	4	6
Lehigh U.	472	7	1	8	7	3	291	2	23	130
Marywood U.	131	4	1	2	1	0	106	2	11	4
Millersville U. PA	134	2	0	1	4	0	120	0	3	4
PA State U.	2,946	102	6	118	97	3	1,669	43	34	874
Philadelphia C. of Osteopathic Medicine	325	12	0	31	77	0	198	6	0	1
Shippensburg U. PA	290	7	0	9	34	0	208	2	17	13
Slippery Rock U. PA	124	4	1	0	6	0	104	0	9	0
St. Joseph's U.	580	27	3	17	89	1	344	7	22	70
Temple U.	1,281	28	5	65	113	0	688	6	65	311
Thomas Jefferson U.	220	0	0	15	14	1	134	0	26	30
U. PA	1,844	61	9	181	40	3	952	8	19	571
U. Pittsburgh	2,303	48	6	85	58	3	1,155	7	140	801
U. of the Sciences Philadelphia	141	3	1	10	7	0	22	0	71	27

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
U. Scranton	129	3	1	6	2	0	90	1	12	14
Villanova U.	454	9	0	22	19	2	304	4	14	80
West Chester U. PA	479	19	1	18	56	0	361	0	0	24
Wilkes U.	4	0	0	0	0	0	4	0	0	0
East North Central[b]	61,531	1,890	223	2,455	3,275	100	32,793	599	3,093	17,103
Illinois[b]	20,393	814	38	1,097	1,372	31	9,907	249	1,040	5,845
Bradley U.	78	0	0	1	2	0	13	1	2	59
Chicago State U.	194	10	0	3	148	0	27	3	1	2
DePaul U.	1,566	120	1	150	174	5	732	17	184	183
Eastern IL U.	299	2	2	8	36	0	213	0	8	30
Governors State U.	326	26	1	4	146	1	82	2	14	50
IL Institute of Technology	1,276	22	1	36	28	0	260	5	162	762
IL State U.	745	20	0	30	24	0	527	10	18	116
Loyola U., Chicago	597	29	2	36	32	1	361	7	33	96
Midwestern U.	169	8	0	40	6	1	105	3	3	3
North Central C.	2	0	0	0	0	0	2	0	0	0
Northeastern IL U.	370	29	0	36	20	0	191	2	44	48
Northern IL U.	921	21	2	48	32	2	600	14	15	187
Northwestern U.	1,925	107	5	131	84	0	903	21	140	534
Roosevelt U.	332	25	0	21	75	1	142	9	16	43
Rosalind Franklin U. of Medicine and Science	29	0	0	5	1	0	12	0	0	11
Southern IL U., Carbondale	1,643	29	1	40	87	10	979	0	7	490
Southern IL U., Edwardsville	601	13	4	4	64	3	383	10	29	91
U. Chicago	2,223	49	10	113	77	1	956	76	240	701
U. IL, Chicago	2,275	168	2	110	174	2	1,076	24	35	684
U. IL, Springfield	800	20	1	41	64	1	516	9	16	132
U. IL, Urbana-Champaign	3,523	104	4	214	76	3	1,571	34	46	1,471
Western IL U.	392	9	2	9	17	0	195	2	20	138
Indiana	8,068	183	37	210	250	12	3,978	54	549	2,795
Ball State U.	681	0	0	0	0	0	85	0	397	199
IN State U.	155	3	0	10	9	0	84	1	0	48
IN U.	3,591	76	19	111	121	12	2,041	30	28	1,153
Purdue U.	2,663	77	15	64	97	0	1,249	11	62	1,088
U. Evansville	1	0	0	0	0	0	0	0	1	0
U. Notre Dame	730	20	2	20	14	0	406	12	41	215
U. of St. Francis	27	1	0	0	1	0	23	0	1	1
Valparaiso U.	220	6	1	5	8	0	90	0	19	91

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Michigan[b]	11,802	340	49	508	700	24	6,304	137	485	3,255
Andrews U.	100	9	0	0	14	0	55	1	0	21
Central MI U.	474	4	2	10	12	1	323	1	12	109
Eastern MI U.	1,050	23	6	32	137	0	640	7	54	151
Ferris State U.	41	0	1	2	0	0	20	2	0	16
Grand Valley State U.	168	2	0	9	3	0	108	3	2	41
Lawrence Technological U.	70	0	0	7	8	0	41	4	0	10
MI State U.	2,501	78	9	60	59	0	1,239	23	80	953
MI Technological U.	370	4	0	1	1	3	170	2	34	155
Northern MI U.	130	0	3	2	1	0	113	3	3	5
Oakland U.	392	7	2	29	13	0	240	0	22	79
U. MI	3,134	130	5	257	91	4	1,647	62	41	897
Wayne State U.	1,727	38	11	77	199	15	787	3	155	442
Western MI U.	1,322	40	10	18	110	1	793	26	47	277
Ohio	14,197	384	49	376	795	20	7,970	80	832	3,691
Air Force Institute of Technology	172	0	0	0	0	0	5	0	151	16
Antioch U.	1,506	108	7	44	79	0	1,061	8	153	46
Bowling Green State U.	618	14	4	10	26	0	324	2	27	211
Case Western Reserve U.	1,019	43	4	64	50	3	494	5	59	297
Cleveland State U.	722	16	3	13	68	0	373	5	41	203
John Carroll U.	68	2	0	0	2	0	60	2	2	0
Kent State U.	937	7	1	13	18	0	586	0	15	297
Miami U.	711	6	2	25	18	1	456	10	32	161
OH State U.	3,156	78	12	89	77	4	1,563	22	102	1,209
OH U.	901	17	2	9	32	0	453	14	33	341
U. Akron	855	13	0	12	84	0	477	2	10	257
U. Cincinnati	1,702	45	8	45	175	5	1,081	3	63	277
U. Dayton	360	6	1	3	57	0	219	3	29	42
U. Toledo	609	10	1	19	24	0	265	0	86	204
Wright State U.	639	18	3	25	71	7	403	4	21	87
Xavier U.	33	0	1	1	4	0	26	0	1	0
Youngstown State U.	189	1	0	4	10	0	124	0	7	43
Wisconsin	7,071	169	50	264	158	13	4,634	79	187	1,517
Marquette U.	356	9	0	8	9	0	215	2	12	101
Medical C. WI	208	2	1	6	6	1	148	1	0	43
Milwaukee School of Engineering	11	0	0	1	0	0	9	0	1	0
U. WI, Eau Claire	24	0	0	0	0	0	22	0	1	1
U. WI, Green Bay	34	1	3	1	1	0	28	0	0	0
U. WI, La Crosse	123	4	0	1	0	0	114	1	2	1

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
U. WI, Madison	3,800	125	34	162	70	8	2,201	0	158	1,042
U. WI, Milwaukee	2,124	25	9	74	68	0	1,574	75	9	290
U. WI, Oshkosh	93	2	2	3	0	0	81	0	0	5
U. WI, Platteville	6	0	0	0	0	0	5	0	0	1
U. WI, Stevens Point	98	1	1	1	1	0	91	0	2	1
U. WI, Stout	163	0	0	5	2	4	118	0	2	32
U. WI, Whitewater	31	0	0	2	1	0	28	0	0	0
West North Central	33,967	998	257	922	3,754	39	17,583	312	2,351	7,751
Iowa	4,628	103	20	98	132	6	2,213	1	88	1,967
Drake U.	192	5	0	4	17	0	161	1	2	2
IA State U.	2,159	36	6	45	54	0	1,161	0	71	786
Loras C.	17	0	0	0	0	0	14	0	3	0
Maharishi U. of Management	765	0	0	2	11	0	0	0	0	752
U. IA	1,230	58	9	47	37	5	686	0	11	377
U. Northern IA	265	4	5	0	13	1	191	0	1	50
Kansas	4,654	137	37	100	163	4	2,846	51	143	1,173
Emporia State U.	233	1	2	1	4	3	177	4	8	33
Ft. Hays State U.	86	4	0	0	4	0	74	0	4	0
KS State U.	1,499	35	7	30	65	0	831	14	13	504
Pittsburg State U.	156	2	2	0	1	0	109	0	17	25
U. KS	1,871	54	22	43	43	1	1,178	25	66	439
Washburn U.	27	0	0	0	0	0	26	0	0	1
Wichita State U.	782	41	4	26	46	0	451	8	35	171
Minnesota	12,763	486	109	358	3,063	10	5,539	174	1,595	1,429
Bemidji State U.	50	0	1	0	0	0	46	0	1	2
Mayo Graduate School	192	16	4	14	7	0	81	0	29	41
MN State U., Mankato	420	0	0	0	0	0	0	0	420	0
MN State U., Moorhead	19	0	0	0	0	0	19	0	0	0
St. Cloud State U.	281	3	1	15	11	0	205	0	0	46
St. Mary's U. MN	79	0	0	0	3	0	55	0	18	3
U. MN	3,835	81	16	177	59	9	2,246	66	71	1,110
Walden U.	7,887	386	87	152	2,983	1	2,887	108	1,056	227
Missouri	6,274	143	23	182	259	8	3,569	49	287	1,754
A. T. Still U.	24	2	0	2	3	0	16	0	1	0
Forest Institute of Professional Psychology	42	0	1	1	1	0	36	0	2	1
Kansas City U. of Medicine and Biosciences	92	0	0	9	2	1	77	2	1	0
Lincoln U., Jefferson City	28	0	0	0	13	0	12	0	1	2
MO State U.	413	11	3	11	5	2	314	5	24	38

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
MO U. of Science and Technology	208	1	0	2	2	0	69	0	0	134
Northwest MO State U.	237	1	0	4	1	0	116	5	0	110
Southeast MO State U.	68	0	0	0	3	0	41	0	0	24
St. Louis U.	556	14	0	14	52	0	374	15	13	74
Truman State U.	6	1	0	0	0	0	5	0	0	0
U. Central MO	486	7	3	4	22	1	316	0	44	89
U. MO, Columbia	1,583	25	3	23	49	0	882	13	75	513
U. MO, Kansas City	763	32	2	22	43	1	351	3	48	261
U. MO, St. Louis	508	4	5	21	29	0	311	0	40	98
Washington U., St. Louis	1,260	45	6	69	34	3	649	6	38	410
Nebraska	3,077	98	13	75	99	10	1,883	25	118	756
Creighton U.	181	7	0	6	2	6	117	1	10	32
U. NE, Kearney	279	13	2	8	7	0	224	7	18	0
U. NE, Lincoln	1,670	52	8	39	49	2	930	11	67	512
U. NE, Medical Ctr.	125	3	0	5	1	2	62	0	0	52
U. NE, Omaha	822	23	3	17	40	0	550	6	23	160
North Dakota	1,446	12	27	27	19	0	764	8	94	495
ND State U.	936	4	3	12	10	0	438	8	52	409
U. ND	510	8	24	15	9	0	326	0	42	86
South Dakota	1,125	19	28	82	19	1	769	4	26	177
SD School of Mines and Technology	95	4	2	0	0	0	71	2	2	14
SD State U.	489	8	11	64	13	0	269	1	18	105
U. SD	541	7	15	18	6	1	429	1	6	58
South Atlantic	71,634	3,483	241	3,240	6,724	106	37,484	494	3,999	15,863
Delaware	1,450	24	3	39	84	1	737	3	15	544
DE State U.	90	2	0	2	39	0	25	0	3	19
U. DE	1,360	22	3	37	45	1	712	3	12	525
District of Columbia	8,736	398	28	535	884	11	4,246	76	1,096	1,462
American U., Washington, DC	2,087	107	9	69	179	0	902	53	533	235
Catholic U. America	273	13	0	17	13	0	137	0	55	38
Gallaudet U.	96	10	1	0	6	0	65	7	4	3
George Washington U.	3,045	132	16	203	132	4	1,669	16	317	556
Georgetown U.	2,624	124	2	242	85	3	1,457	0	172	539
Howard U.	590	10	0	3	465	4	16	0	1	91
U. of the DC	21	2	0	1	4	0	0	0	14	0

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Florida	17,178	1,861	73	694	1,614	18	8,921	68	548	3,381
Barry U.	270	64	1	57	41	1	61	0	32	13
Embry-Riddle Aeronautical U.	101	8	1	0	3	0	60	2	14	13
FL A&M U.	294	3	0	1	237	1	7	0	0	45
FL Atlantic U.	940	109	2	49	62	0	547	0	14	157
FL Institute of Technology	645	28	0	11	16	0	292	2	94	202
FL International U.	1,219	405	1	38	116	0	319	14	13	313
FL State U.	2,528	145	24	61	167	8	1,488	3	26	606
Nova Southeastern U.	2,623	466	11	111	479	0	1,329	0	130	97
U. Central FL	1,800	134	6	63	154	2	1,090	10	46	295
U. FL	3,237	205	13	130	105	0	1,574	0	137	1,073
U. Miami	860	112	1	39	34	0	360	14	29	271
U. South FL, Tampa	1,984	142	8	110	152	2	1,270	5	13	282
U. West FL	677	40	5	24	48	4	524	18	0	14
Georgia	7,196	176	20	317	857	12	3,444	56	212	2,102
Augusta State U.	87	4	0	1	11	0	32	2	32	5
Clark Atlanta U.	232	0	1	1	204	0	4	0	5	17
Emory U.	894	31	1	45	55	2	436	1	73	250
GA C. and State U.	168	4	2	1	34	0	106	4	6	11
GA Health Sciences U.	137	0	0	6	11	0	44	1	1	74
GA Institute of Technology	1,786	46	3	105	71	0	708	22	7	824
GA Southern U.	250	8	3	9	31	0	170	4	8	17
GA State U.	1,233	33	3	81	177	6	501	11	24	397
Morehouse School of Medicine	110	1	0	9	99	0	1	0	0	0
U. GA	1,863	38	3	51	73	1	1,166	5	28	498
U. West GA	149	3	1	1	18	1	87	1	28	9
Valdosta State U.	287	8	3	7	73	2	189	5	0	0
Maryland	10,286	332	31	671	1,141	15	5,025	90	517	2,464
Coppin State U.	90	0	0	0	87	0	1	0	0	2
Frostburg State U.	69	1	0	1	1	0	63	0	0	3
Hood C.	329	8	2	16	34	0	218	6	21	24
Johns Hopkins U.	2,295	77	14	226	115	7	1,014	12	37	793
Loyola U., MD	578	18	1	20	98	2	395	7	18	19
Morgan State U.	101	5	0	4	62	1	7	1	1	20
Towson U.	724	16	6	42	110	0	360	0	49	141
Uniformed Services U. of the Health Sciences	121	6	0	8	3	0	84	0	3	17
U. Baltimore	475	15	1	13	194	1	160	6	57	28
U. MD, Baltimore	319	19	2	33	25	1	189	6	2	42
U. MD, Baltimore County	1,483	49	1	119	162	3	672	10	170	297

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
U. MD, College Park	3,551	114	3	188	190	0	1,832	42	146	1,036
U. MD, Eastern Shore	127	4	1	1	60	0	18	0	13	30
Washington C., MD	24	0	0	0	0	0	12	0	0	12
North Carolina	11,298	290	41	366	1,081	35	6,537	96	203	2,649
Appalachian State U.	370	5	2	3	10	0	345	2	0	3
Duke U.	1,535	47	1	69	53	2	797	6	30	530
East Carolina U.	729	1	9	20	66	2	536	6	19	70
NC Agricultural and Technical State U.	222	2	1	3	159	0	19	0	2	36
NC Central U.	465	4	1	9	370	0	44	1	15	21
NC State U.	2,969	86	9	106	126	0	1,645	23	37	937
U. NC, Chapel Hill	2,360	80	10	94	130	22	1,489	23	38	474
U. NC, Charlotte	1,059	24	1	25	81	8	521	9	24	366
U. NC, Greensboro	568	20	2	15	51	0	368	10	7	95
U. NC, Wilmington	482	14	2	7	17	1	384	15	22	20
Wake Forest U.	408	6	0	13	14	0	270	0	8	97
Western Carolina U.	131	1	3	2	4	0	119	1	1	0
South Carolina	2,373	31	6	29	138	5	1,460	13	88	603
Clemson U.	1,132	10	1	12	55	0	649	9	58	338
C. Charleston	246	3	2	2	7	0	221	2	5	4
Furman U.	2	0	0	0	0	0	0	0	2	0
Medical U. SC	160	4	0	5	12	0	106	0	10	23
U. SC	726	13	3	8	58	5	389	2	13	235
Winthrop U.	107	1	0	2	6	0	95	0	0	3
Virginia	11,469	346	34	556	873	7	5,992	76	1,300	2,285
C. of William and Mary	419	7	6	5	11	0	280	2	1	107
Eastern VA Medical School	71	4	1	7	6	0	46	0	0	7
George Mason U.	4,227	182	8	281	201	1	1,802	17	1,031	704
Hampton U.	111	1	0	9	82	0	12	4	0	3
James Madison U.	275	7	1	5	11	0	190	2	33	26
Marymount U.	372	13	0	14	37	1	234	0	40	33
Old Dominion U.	895	24	3	22	71	1	453	8	70	243
Radford U.	83	2	1	1	8	0	70	0	0	1
U. VA	1,273	16	4	48	43	2	756	9	51	344
VA Commonwealth U.	1,259	27	3	66	181	1	770	13	33	165
VA Polytechnic Institute and State U.	2,379	60	6	95	136	1	1,371	21	37	652
VA State U.	105	3	1	3	86	0	8	0	4	0

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
West Virginia	1,648	25	5	33	52	2	1,122	16	20	373
Marshall U.	519	4	2	10	24	1	408	0	6	64
WV U.	1,129	21	3	23	28	1	714	16	14	309
East South Central	16,364	254	55	519	2,229	12	9,705	99	378	3,113
Alabama	4,548	67	21	260	827	5	2,519	12	107	730
AL A&M U.	153	1	0	7	99	0	9	2	1	34
AL State U.	30	0	0	0	21	0	4	0	0	5
Auburn U.	1,171	18	4	30	132	0	691	0	12	284
Jacksonville State U.	284	5	0	0	84	0	174	0	7	14
Troy U.	411	6	4	1	241	0	132	0	14	13
Tuskegee U.	57	0	0	0	38	0	0	0	8	11
U. AL, Birmingham	873	22	5	193	92	0	516	8	37	0
U. AL, Huntsville	407	0	3	16	28	0	251	1	8	100
U. AL, Tuscaloosa	767	9	3	8	61	3	503	1	3	176
U. South AL	395	6	2	5	31	2	239	0	17	93
Kentucky	3,645	50	7	56	218	2	2,301	25	117	869
Eastern KY U.	267	2	2	5	11	0	217	1	2	27
Morehead State U.	148	1	0	1	6	0	128	0	1	11
Murray State U.	395	7	0	2	65	0	248	6	2	65
U. KY	1,633	28	3	20	55	0	958	7	100	462
U. Louisville	739	10	0	25	63	2	456	6	9	168
Western KY U.	463	2	2	3	18	0	294	5	3	136
Mississippi	2,736	43	11	44	531	4	1,511	19	47	526
Jackson State U.	409	2	0	4	316	0	35	5	4	43
MS State U.	1,234	21	9	20	110	3	794	4	41	232
U. MS	371	5	0	13	36	1	196	3	1	116
U. Southern MS	722	15	2	7	69	0	486	7	1	135
Tennessee	5,435	94	16	159	653	1	3,374	43	107	988
Austin Peay State U.	121	3	0	2	16	0	93	1	4	2
East TN State U.	341	7	2	3	7	0	247	8	0	67
Fisk U.	39	3	0	1	22	1	6	1	0	5
Meharry Medical C.	60	0	0	1	58	0	0	0	0	1
Middle TN State U.	494	13	2	23	50	0	314	11	6	75
TN State U.	445	5	3	11	259	0	127	0	4	36
TN Technological U.	190	2	1	1	9	0	160	0	0	17
U. Memphis	665	6	1	24	98	0	373	7	3	153
U. TN, Chattanooga	176	2	0	1	9	0	112	1	42	9
U. TN, Health Science Ctr.	163	1	1	13	16	0	81	0	6	45

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
U. TN, Knoxville	1,573	21	3	32	44	0	1,124	7	32	310
Vanderbilt U.	1,168	31	3	47	65	0	737	7	10	268
West South Central	40,495	3,701	348	1,634	3,570	51	18,154	291	1,410	11,336
Arkansas	2,094	36	16	37	162	1	1,179	12	46	605
AR State U.	353	3	3	1	51	1	181	3	3	107
U. AR, Fayetteville	974	18	10	9	28	0	588	5	31	285
U. AR for Medical Sciences	141	0	1	13	14	0	74	3	0	36
U. AR, Little Rock	366	12	1	10	44	0	134	1	4	160
U. Central AR	260	3	1	4	25	0	202	0	8	17
Louisiana	4,776	93	42	148	995	9	2,023	29	232	1,205
Grambling State U.	152	4	0	0	91	1	1	0	44	11
LA State U.	2,355	60	7	50	200	0	1,189	16	125	708
LA Tech U.	143	1	0	2	12	0	38	0	2	88
Loyola U., New Orleans	15	1	0	0	6	0	8	0	0	0
McNeese State U.	167	2	27	2	10	0	66	2	19	39
Nicholls State U.	133	1	1	1	39	1	84	0	4	2
Northwestern State U. LA	44	2	0	1	14	0	25	0	0	2
Southeastern LA U.	143	2	0	2	17	0	110	0	2	10
Southern U. and A&M C.	639	1	2	47	558	0	6	0	12	13
Tulane U.	486	16	3	32	23	1	254	7	13	137
U. LA, Lafayette	399	3	0	4	13	0	182	2	5	190
U. LA, Monroe	100	0	2	7	12	6	60	2	6	5
Oklahoma	4,364	96	188	114	217	12	2,384	29	345	979
Cameron U.	157	3	13	5	47	0	75	0	9	5
Northeastern State U.	230	6	56	0	11	0	150	0	1	6
OK State U.	1,465	29	36	20	43	9	798	4	0	526
U. OK	2,306	54	74	86	110	3	1,235	25	316	403
U. Tulsa	206	4	9	3	6	0	126	0	19	39
Texas	29,261	3,476	102	1,335	2,196	29	12,568	221	787	8,547
Abilene Christian U.	300	19	0	3	52	0	167	4	29	26
Angelo State U.	136	21	1	1	8	0	101	0	3	1
Baylor C. of Medicine	501	39	3	46	21	0	195	0	0	197
Baylor U.	472	25	0	20	7	1	297	10	6	106
Lamar U.	185	7	0	6	8	0	47	0	24	93
Midwestern State U.	106	3	1	3	10	0	63	0	2	24
Prairie View A&M U.	280	12	0	11	196	0	21	0	4	36
Rice U.	766	39	1	35	17	2	272	8	13	379
Sam Houston State U.	330	22	0	6	12	1	230	1	2	56

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Southern Methodist U.	345	22	1	15	5	1	162	0	2	137
St. Mary's U., San Antonio	280	85	2	29	16	0	92	0	32	24
Stephen F. Austin State U.	480	22	9	5	53	0	349	0	3	39
Sul Ross State U.	145	65	1	0	4	0	59	1	14	1
Tarleton State U.	288	30	0	7	36	1	189	9	0	16
TX A&M Health Science Ctr.	164	1	0	9	2	0	74	0	0	78
TX A&M U.	4,040	307	7	149	112	7	1,825	13	249	1,371
TX A&M U., Commerce	395	11	2	2	17	0	125	0	0	238
TX A&M U., Corpus Christi	330	69	4	6	0	0	147	0	0	104
TX A&M U., Kingsville	358	106	2	2	9	0	108	0	4	127
TX Christian U.	140	7	0	4	0	0	93	1	3	32
TX Southern U.	621	19	0	35	541	0	17	0	9	0
TX State U., San Marcos	1,417	233	8	89	77	0	919	0	49	42
TX Tech U.	1,312	70	5	14	14	0	594	14	9	592
TX Woman's U.	738	74	5	39	114	0	422	0	5	79
U. Houston	1,565	99	2	90	73	2	511	15	8	765
U. Houston, Clear Lake	1,093	131	2	44	138	3	354	13	7	401
U. Houston, Victoria	273	50	0	26	61	0	110	3	2	21
U. North TX, Denton	1,643	158	7	51	100	0	895	44	21	367
U. TX, Arlington	1,463	144	6	61	171	2	642	17	25	395
U. TX, Austin	2,242	130	7	126	41	2	1,185	3	32	716
U. TX, Dallas	1,924	101	4	122	112	1	588	20	66	910
U. TX, El Paso	491	243	2	8	7	0	83	2	6	140
U. TX, Health Science Ctr., Houston	921	78	2	125	34	0	306	0	18	358
U. TX, Health Science Ctr., San Antonio	240	45	0	16	9	0	75	1	12	82
U. TX, Medical Branch	195	18	1	12	11	1	84	0	4	64
U. TX, Pan American	495	397	0	5	1	3	28	0	26	35
U. TX, Permian Basin	76	18	1	1	5	0	43	4	2	2
U. TX, San Antonio	1,330	403	2	50	57	2	466	34	48	268
U. TX, Southwestern Medical Ctr., Dallas	557	52	9	56	18	0	247	0	18	157
U. TX, Tyler	248	10	3	3	18	0	167	3	17	27
U. of the Incarnate Word	124	67	0	3	5	0	33	1	11	4
Wayland Baptist U.	5	2	0	0	0	0	3	0	0	0
West TX A&M U.	247	22	2	0	4	0	180	0	2	37
Mountain	26,726	1,716	325	798	432	57	16,673	439	1,420	4,866
Arizona	6,314	477	94	212	140	6	3,514	129	180	1,562
AZ State U.	2,911	227	28	139	83	3	1,560	25	75	771
Northern AZ U.	598	44	22	11	6	1	457	9	15	33
U. AZ	2,805	206	44	62	51	2	1,497	95	90	758

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Colorado	8,419	411	89	275	149	7	5,738	34	644	1,072
CO School of Mines	699	27	7	16	7	0	447	1	46	148
CO State U., Ft. Collins	1,964	97	27	47	22	2	1,326	0	181	262
CO State U., Pueblo	30	5	0	0	1	1	22	0	0	1
U. CO	4,072	204	39	157	78	0	2,811	14	256	513
U. Denver	1,428	66	15	49	32	3	973	15	158	117
U. Northern CO	226	12	1	6	9	1	159	4	3	31
Idaho	1,338	41	6	19	13	3	929	7	88	232
Boise State U.	257	5	0	3	1	0	209	2	18	19
ID State U.	353	11	1	3	4	0	239	0	44	51
U. ID	728	25	5	13	8	3	481	5	26	162
Montana	1,318	22	32	11	5	7	1,070	4	82	85
MT State U.	607	10	5	7	2	0	493	0	46	44
MT Tech of U. MT	38	0	1	1	1	0	31	0	1	3
U. MT	673	12	26	3	2	7	546	4	35	38
Nevada	1,770	111	5	81	50	6	950	190	91	286
U. NV, Las Vegas	876	75	3	30	42	4	357	185	43	137
U. NV, Reno	894	36	2	51	8	2	593	5	48	149
New Mexico	2,958	512	84	87	49	3	1,391	25	186	621
Eastern NM U.	134	28	2	1	4	0	78	4	3	14
NM Highlands U.	160	59	6	4	3	0	54	0	5	29
NM Institute of Mining and Technology	171	13	2	28	2	0	111	2	0	13
NM State U.	1,092	207	22	11	21	0	399	6	127	299
U. NM	1,401	205	52	43	19	3	749	13	51	266
Utah	3,788	130	12	100	22	25	2,585	48	73	793
Brigham Young U.	1,127	45	6	23	3	17	857	36	1	139
U. UT	1,769	52	4	55	12	6	1,100	9	36	495
UT State U.	892	33	2	22	7	2	628	3	36	159
Wyoming	821	12	3	13	4	0	496	2	76	215
U. WY	821	12	3	13	4	0	496	2	76	215
Pacific[b]	60,576	4,832	449	6,477	1,921	336	27,715	880	5,786	12,180
Alaska	957	19	58	17	12	0	647	40	74	90
U. AK, Anchorage	132	4	6	2	4	0	101	7	5	3
U. AK, Fairbanks	780	15	50	15	6	0	513	33	65	83
U. AK, Southeast	45	0	2	0	2	0	33	0	4	4

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
California[b]	47,580	4,401	283	5,660	1,736	138	19,968	594	4,900	9,900
Alliant International U.	907	101	8	86	59	0	462	28	131	32
Azusa Pacific U.	339	41	0	40	18	1	152	1	74	12
Biola U.	48	2	0	9	1	0	30	0	0	6
CA Institute of Integral Studies	371	15	0	26	10	1	249	7	31	32
CA Institute of Technology	729	28	3	85	15	4	351	1	11	231
CA Polytechnic State U., San Luis Obispo	263	25	1	5	2	0	170	11	40	9
CA State Polytechnic U., Pomona	502	86	2	99	19	2	140	14	80	60
CA State U., Bakersfield	186	62	5	12	14	1	64	4	19	5
CA State U., Chico	342	34	1	13	4	1	216	10	34	29
CA State U., Dominguez Hills	317	82	0	20	108	1	46	7	39	14
CA State U., East Bay	515	19	2	113	15	1	114	7	52	192
CA State U., Fresno	272	68	1	32	4	1	112	0	25	29
CA State U., Fullerton	1,144	156	4	189	29	0	427	33	129	177
CA State U., Long Beach	1,148	151	9	204	43	8	381	28	149	175
CA State U., Los Angeles	909	262	2	134	43	1	190	0	128	149
CA State U., Northridge	891	120	4	106	40	9	372	21	129	90
CA State U., Sacramento	697	63	10	69	25	0	354	18	54	104
CA State U., San Bernardino	358	80	2	23	23	0	145	7	38	40
CA State U., Stanislaus	231	52	3	18	6	1	94	17	37	3
Chapman U.	220	33	1	35	6	1	103	2	20	19
Claremont Graduate U.	778	58	2	79	31	6	340	15	55	192
Dominican U. CA	108	13	1	2	3	0	63	2	19	5
Fielding Graduate U.	1,056	66	13	37	99	0	686	23	53	79
Frederick S. Pardee RAND Graduate School	103	0	0	16	1	0	56	0	0	30
Fuller Theological Seminary	253	15	1	43	21	0	148	0	23	2
Golden Gate U.	267	23	0	29	43	5	79	7	57	24
Humboldt State U.	290	14	5	8	2	0	200	11	40	10
Loma Linda U.	294	31	1	38	32	0	113	0	46	33
Loyola Marymount U.	109	17	1	14	5	0	63	5	0	4
National U.	931	184	2	65	111	5	370	13	91	90
Naval Postgraduate School	1,052	64	7	72	60	0	693	0	55	101
Occidental C.	1	0	0	0	0	0	1	0	0	0
Pacific States U.	18	0	0	0	0	0	0	0	0	18
Palo Alto U.	428	32	3	69	16	2	202	13	75	16
Pepperdine U.	1,002	103	6	72	78	4	423	4	290	22
San Diego State U.	1,392	128	6	106	22	29	568	14	109	410
San Francisco State U.	1,229	147	5	175	61	4	510	57	143	127
San Jose State U.	1,604	155	4	194	32	0	397	39	198	585
Santa Clara U.	466	36	1	74	8	1	159	5	43	139

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Sonoma State U.	20	0	0	0	0	0	2	0	17	1
Stanford U.	2,705	118	19	381	52	6	1,058	17	211	843
U. CA, Berkeley	3,308	226	42	394	94	9	1,524	0	386	633
U. CA, Davis	2,909	170	38	344	45	6	1,454	0	284	568
U. CA, Irvine	2,198	168	4	343	33	4	944	33	182	487
U. CA, Los Angeles	3,079	232	12	467	83	7	1,295	28	216	739
U. CA, San Diego	2,317	132	18	368	35	3	1,175	12	142	432
U. CA, San Francisco	437	46	3	64	11	0	202	0	87	24
U. CA, Santa Barbara	1,584	107	6	123	25	0	777	0	260	286
U. CA, Santa Cruz	1,026	110	3	75	18	4	516	17	132	151
U. La Verne	413	141	0	35	60	0	99	0	71	7
U. San Diego	71	7	2	0	2	0	41	3	5	11
U. San Francisco	385	18	0	49	4	1	114	11	18	170
U. Southern CA	4,068	286	15	473	128	4	1,063	46	204	1,849
U. of the Pacific	66	2	0	13	3	0	32	3	5	8
Hawaii	1,803	43	8	214	13	170	692	121	13	529
U. HI, Manoa	1,803	43	8	214	13	170	692	121	13	529
Oregon	3,897	126	41	158	47	6	2,544	40	303	632
OR Health and Science U.	365	11	4	26	4	2	254	1	16	47
OR State U.	1,487	56	20	58	9	0	927	19	85	313
Portland State U.	1,218	30	11	43	23	3	829	17	97	165
Southern OR U.	49	5	0	4	1	1	37	0	0	1
U. OR	778	24	6	27	10	0	497	3	105	106
Washington	6,339	243	59	428	113	22	3,864	85	496	1,029
Central WA U.	228	8	7	4	4	0	137	9	54	5
Eastern WA U.	285	15	5	9	8	1	203	1	31	12
Seattle U.	326	23	6	29	15	3	192	7	44	7
U. WA	4,087	159	33	349	69	7	2,452	57	278	683
Walla Walla U.	29	2	1	1	0	0	23	0	0	2
WA State U.	1,196	32	5	31	15	8	707	6	74	318
Western WA U.	188	4	2	5	2	3	150	5	15	2
Outlying Areas	2,607	2,231	0	17	1	76	20	1	2	259
Guam	122	1	0	17	1	76	15	1	2	9
U. GU	122	1	0	17	1	76	15	1	2	9
Puerto Rico	2,485	2,230	0	0	0	0	5	0	0	250
Carlos Albizu U.	257	257	0	0	0	0	0	0	0	0
Ponce School of Medicine	35	34	0	0	0	0	0	0	0	1

TABLE 23. Graduate students in science in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Pontifical Catholic U. PR	767	767	0	0	0	0	0	0	0	0
Universidad Central del Caribe	23	23	0	0	0	0	0	0	0	0
U. PR, Mayaguez	474	345	0	0	0	0	0	0	0	129
U. PR, Medical Sciences Campus	234	234	0	0	0	0	0	0	0	0
U. PR, Rio Piedras	695	570	0	0	0	0	5	0	0	120

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; institutions are not listed separately.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
All institutions[b]	149,241	5,640	329	10,270	4,180	174	52,870	1,002	7,830	66,946
New England	10,559	275	18	716	167	5	3,724	61	906	4,687
Connecticut	1,892	38	0	112	35	0	518	6	99	1,084
Rensselaer Polytechnic U., Hartford	247	13	0	29	6	0	172	0	27	0
U. Bridgeport	650	3	0	10	4	0	9	3	0	621
U. CT	575	16	0	37	12	0	230	3	13	264
U. Hartford	110	6	0	19	5	0	43	0	25	12
U. New Haven	140	0	0	4	7	0	20	0	11	98
Yale U.	170	0	0	13	1	0	44	0	23	89
Maine	171	0	0	4	1	2	97	1	12	54
U. ME	171	0	0	4	1	2	97	1	12	54
Massachusetts	7,593	218	16	558	120	3	2,652	48	754	3,224
Boston U.	638	18	2	56	5	0	241	5	43	268
Harvard U.	183	5	0	24	4	0	56	2	8	84
MA Institute of Technology	2,762	106	9	290	47	0	903	30	222	1,155
Northeastern U.	1,314	14	0	38	15	0	211	1	252	783
Tufts U.	491	5	2	31	8	2	201	0	133	109
U. MA, Amherst	632	13	0	12	3	1	207	6	37	353
U. MA, Boston	22	1	1	0	2	0	9	0	4	5
U. MA, Dartmouth	172	4	1	4	2	0	66	0	8	87
U. MA, Lowell	545	23	0	46	16	0	255	1	30	174
Western New England C.	47	2	0	3	1	0	28	1	10	2
Worcester Polytechnic Institute	787	27	1	54	17	0	475	2	7	204
New Hampshire	394	5	2	11	3	0	186	5	27	155
Dartmouth C.	200	3	1	10	3	0	70	1	10	102
U. NH	194	2	1	1	0	0	116	4	17	53
Rhode Island	399	14	0	27	7	0	200	1	11	139
Brown U.	145	4	0	6	0	0	45	0	3	87
U. RI	254	10	0	21	7	0	155	1	8	52
Vermont	110	0	0	4	1	0	71	0	3	31
U. VT	110	0	0	4	1	0	71	0	3	31
Middle Atlantic	21,333	610	32	1,612	600	11	6,399	80	1,402	10,587
New Jersey	4,408	186	8	432	149	1	1,068	12	606	1,946
Fairleigh Dickinson U.	50	0	0	0	0	0	0	0	7	43
Monmouth U.	27	3	0	4	1	0	13	1	2	3

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
NJ Institute of Technology	1,138	76	3	144	72	0	234	0	74	535
Princeton U.	547	17	2	43	10	0	160	5	38	272
Rutgers, State U. NJ	782	22	1	56	20	1	226	6	23	427
Stevens Institute of Technology	1,855	68	2	185	46	0	427	0	462	665
U. of Medicine and Dentistry of NJ	9	0	0	0	0	0	8	0	0	1
New York	10,564	323	15	821	304	5	2,783	53	689	5,571
Alfred U.	50	0	0	2	1	0	28	0	5	14
Clarkson U.	204	1	1	3	0	0	85	5	0	109
Columbia U. in the City of New York	1,591	34	3	140	26	1	264	13	170	940
Cooper Union for the Advancement of Science and Art	82	2	1	22	2	0	34	0	5	16
Cornell U.	1,582	74	1	198	28	1	506	30	73	671
CUNY, City C.	615	63	0	98	68	1	146	1	4	234
CUNY, Graduate Ctr.	84	3	0	8	5	0	3	0	20	45
Manhattan C.	166	20	0	8	15	1	106	0	3	13
NY Institute of Technology	377	13	3	25	25	0	84	0	47	180
Pace U.	22	5	0	1	1	0	4	0	7	4
Polytechnic Institute of NY U.	1,262	40	1	113	75	0	210	0	119	704
Rensselaer Polytechnic U., Troy	603	15	0	19	6	1	206	2	38	316
Rochester Institute of Technology	403	7	1	8	5	0	127	0	28	227
SUNY, Binghamton U.	489	7	2	36	9	0	147	0	28	260
SUNY, C. New Paltz	97	0	0	3	0	0	6	0	1	87
SUNY, C. of Environmental Science and Forestry	94	1	0	2	1	0	51	0	0	39
SUNY, Downstate Medical Ctr.	14	0	0	2	2	0	8	0	0	2
SUNY, Institute of Technology, Utica/Rome	7	0	0	0	0	0	7	0	0	0
SUNY, Stony Brook U.	458	8	0	46	6	0	76	0	14	308
SUNY, U. Albany	144	1	0	5	3	0	76	0	5	54
SUNY, U. Buffalo	1,059	12	1	31	11	0	268	0	55	681
Syracuse U.	787	15	0	31	13	0	195	1	28	504
Union C., Schenectady	98	1	1	2	0	0	55	0	37	2
U. Rochester	276	1	0	18	2	0	91	1	2	161
Pennsylvania	6,361	101	9	359	147	5	2,548	15	107	3,070
Bucknell U.	17	0	0	1	0	0	15	1	0	0
Carnegie Mellon U.	1,275	15	3	115	29	0	325	1	0	787
Drexel U.	630	14	0	41	29	0	292	0	29	225
Gannon U.	141	0	0	1	1	0	19	0	4	116
Lehigh U.	595	5	0	14	12	1	264	2	11	286
PA State U.	1,811	30	2	58	24	4	666	9	21	997
Temple U.	147	1	1	14	4	0	45	0	13	69

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
U. PA	590	15	1	76	12	0	243	0	12	231
U. Pittsburgh	772	15	2	21	17	0	424	0	1	292
Villanova U.	319	6	0	17	12	0	220	1	12	51
Widener U.	36	0	0	0	7	0	17	0	3	9
Wilkes U.	28	0	0	1	0	0	18	1	1	7
East North Central[b]	25,037	518	34	1,221	511	16	8,981	136	1,473	12,147
Illinois	6,357	169	6	426	108	2	2,007	44	160	3,435
Bradley U.	161	2	2	1	1	0	35	0	3	117
IL Institute of Technology	1,330	17	1	50	17	0	222	5	83	935
Northern IL U.	239	2	0	31	6	1	88	1	1	109
Northwestern U.	915	35	1	88	10	0	342	7	29	403
Southern IL U., Carbondale	439	2	0	6	20	0	119	0	4	288
Southern IL U., Edwardsville	190	1	1	6	9	0	73	1	7	92
U. IL, Chicago	850	38	0	95	25	1	319	10	17	345
U. IL, Urbana-Champaign	2,233	72	1	149	20	0	809	20	16	1,146
Indiana	3,902	80	5	163	74	2	1,493	22	158	1,905
Ball State U.	88	0	0	0	0	0	0	0	70	18
IN U.	141	3	0	6	3	0	46	0	7	76
Purdue U.	3,119	63	2	143	68	2	1,196	13	57	1,575
Rose-Hulman Institute of Technology	104	0	0	4	0	0	65	0	8	27
U. Notre Dame	450	14	3	10	3	0	186	9	16	209
Michigan[b]	5,887	134	8	350	177	1	2,126	41	212	2,838
Andrews U.	15	0	0	0	3	0	10	0	0	2
Central MI U.	15	0	0	0	0	0	4	0	0	11
Eastern MI U.	144	4	1	5	7	0	79	0	15	33
Grand Valley State U.	53	0	0	0	0	0	43	0	3	7
Lawrence Technological U.	315	5	1	33	19	0	168	3	8	78
MI State U.	636	18	1	7	19	0	186	5	8	392
MI Technological U.	675	17	0	6	5	1	235	0	27	384
Oakland U.	286	3	2	34	6	0	144	0	14	83
U. MI	2,598	72	1	198	70	0	873	30	59	1,295
Wayne State U.	720	6	0	58	33	0	242	3	49	329
Western MI U.	234	4	0	5	7	0	73	0	3	142
Ohio	6,389	78	5	181	111	5	2,064	12	878	3,055
Air Force Institute of Technology	630	1	0	2	0	0	22	0	586	19
Case Western Reserve U.	552	7	3	40	11	0	184	1	22	284
Cleveland State U.	450	4	1	18	13	0	155	0	12	247

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Miami U.	59	2	0	0	1	1	35	0	2	18
OH State U.	1,547	31	1	57	21	0	675	6	83	673
OH U.	264	5	0	1	2	0	84	3	11	158
U. Akron	457	2	0	9	3	1	168	1	7	266
U. Cincinnati	961	6	0	10	10	0	183	0	48	704
U. Dayton	518	10	0	15	29	0	215	1	58	190
U. Toledo	364	3	0	5	3	0	94	0	21	238
Wright State U.	533	7	0	22	17	3	221	0	26	237
Youngstown State U.	54	0	0	2	1	0	28	0	2	21
Wisconsin	2,502	57	10	101	41	6	1,291	17	65	914
Marquette U.	198	1	1	6	4	1	111	0	2	72
Milwaukee School of Engineering	58	0	0	2	1	0	50	0	4	1
U. WI, La Crosse	47	0	0	1	0	0	13	1	2	30
U. WI, Madison	1,535	46	8	71	21	3	701	2	46	637
U. WI, Milwaukee	488	9	0	21	8	0	282	13	2	153
U. WI, Platteville	110	1	1	0	6	0	85	0	9	8
U. WI, Stout	66	0	0	0	1	2	49	1	0	13
West North Central	8,608	144	22	271	164	10	3,685	32	306	3,974
Iowa	1,515	20	4	34	38	2	620	0	51	746
IA State U.	1,129	17	4	26	27	0	458	0	43	554
U. IA	340	3	0	8	11	2	136	0	8	172
U. Northern IA	46	0	0	0	0	0	26	0	0	20
Kansas	1,767	38	8	70	23	3	803	13	51	758
KS State U.	474	11	1	11	11	2	253	2	5	178
Pittsburg State U.	63	0	0	1	0	0	32	0	13	17
U. KS	610	18	4	11	7	1	372	10	14	173
Wichita State U.	620	9	3	47	5	0	146	1	19	390
Minnesota	1,834	30	2	67	38	4	818	11	86	778
Bemidji State U.	14	0	0	0	0	0	12	0	0	2
Mayo Graduate School	30	3	0	0	2	0	13	0	1	11
MN State U., Mankato	51	0	0	0	0	0	0	0	51	0
St. Cloud State U.	120	2	0	6	0	1	12	0	1	98
U. MN	1,530	21	2	58	20	3	733	10	19	664
Walden U.	89	4	0	3	16	0	48	1	14	3
Missouri	2,165	39	3	66	43	1	881	6	80	1,046
MO State U.	11	0	0	0	0	0	6	0	1	4
MO U. of Science and Technology	1,020	20	3	22	28	1	443	1	52	450

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
St. Louis U.	22	0	0	1	0	0	15	0	0	6
U. Central MO	71	2	0	6	4	0	35	0	4	20
U. MO, Columbia	485	10	0	12	7	0	182	2	7	265
U. MO, Kansas City	225	3	0	7	2	0	46	1	10	156
Washington U., St. Louis	331	4	0	18	2	0	154	2	6	145
Nebraska	525	5	0	15	12	0	207	1	8	277
U. NE, Lincoln	525	5	0	15	12	0	207	1	8	277
North Dakota	462	8	3	18	8	0	198	1	28	198
ND State U.	343	5	3	12	4	0	138	1	23	157
U. ND	119	3	0	6	4	0	60	0	5	41
South Dakota	340	4	2	1	2	0	158	0	2	171
SD School of Mines and Technology	165	4	0	0	1	0	89	0	1	70
SD State U.	166	0	2	1	1	0	63	0	0	99
U. SD	9	0	0	0	0	0	6	0	1	2
South Atlantic	26,330	1,072	44	1,557	1,362	12	10,254	186	1,077	10,766
Delaware	516	3	1	12	10	0	212	1	3	274
U. DE	516	3	1	12	10	0	212	1	3	274
District of Columbia	1,495	63	7	98	131	2	562	1	366	265
Catholic U. America	262	18	0	11	23	0	119	0	55	36
George Washington U.	1,187	44	7	87	97	2	442	1	311	196
Howard U.	46	1	0	0	11	0	1	0	0	33
Florida	6,793	570	11	308	308	3	2,235	23	179	3,156
Embry-Riddle Aeronautical U.	175	8	2	13	6	0	68	4	10	64
FL A&M U.	92	7	0	1	46	0	28	2	1	7
FL Atlantic U.	223	29	1	14	18	0	90	0	3	68
FL Institute of Technology	334	8	0	8	8	0	84	3	43	180
FL International U.	396	101	0	11	24	0	29	1	4	226
FL State U.	237	14	0	2	12	0	89	1	1	118
U. Central FL	1,114	108	1	62	56	1	474	8	22	382
U. FL	3,164	168	7	122	78	0	980	0	70	1,739
U. Miami	268	47	0	6	7	0	83	2	18	105
U. South FL, Tampa	790	80	0	69	53	2	310	2	7	267
Georgia	4,085	121	3	342	141	1	1,631	54	58	1,734
GA Institute of Technology	3,929	119	3	330	125	1	1,566	54	25	1,706
Mercer U.	113	2	0	12	12	0	54	0	33	0
U. GA	43	0	0	0	4	0	11	0	0	28

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Maryland	3,118	89	2	288	236	1	1,099	35	113	1,255
Johns Hopkins U.	838	19	0	101	24	0	270	4	13	407
Loyola U., MD	1	0	0	0	0	0	1	0	0	0
Morgan State U.	190	4	0	4	103	0	40	3	0	36
U. MD, Baltimore County	235	8	0	14	18	1	72	4	25	93
U. MD, College Park	1,854	58	2	169	91	0	716	24	75	719
North Carolina	3,862	73	8	209	299	3	1,692	13	52	1,513
Appalachian State U.	62	2	0	0	1	0	59	0	0	0
Duke U.	480	15	2	55	8	0	198	0	1	201
East Carolina U.	66	3	0	0	10	1	36	0	1	15
NC Agricultural and Technical State U.	341	1	0	25	180	1	37	0	1	96
NC State U.	2,334	40	4	104	72	1	1,076	10	38	989
U. NC, Chapel Hill	111	3	0	14	5	0	64	2	0	23
U. NC, Charlotte	432	9	2	10	22	0	194	1	11	183
Wake Forest U.	36	0	0	1	1	0	28	0	0	6
South Carolina	1,671	31	6	62	50	0	690	15	31	786
Clemson U.	1,164	15	6	33	33	0	499	13	31	534
U. SC	507	16	0	29	17	0	191	2	0	252
Virginia	4,205	112	5	230	178	2	1,904	40	266	1,468
George Mason U.	586	30	2	61	24	0	191	5	136	137
Hampton U.	29	1	0	0	20	0	5	3	0	0
Old Dominion U.	744	23	2	23	57	2	348	12	72	205
U. VA	539	9	1	32	15	0	287	6	5	184
VA Commonwealth U.	183	5	0	15	9	0	72	1	1	80
VA Polytechnic Institute and State U.	2,124	44	0	99	53	0	1,001	13	52	862
West Virginia	585	10	1	8	9	0	229	4	9	315
Marshall U.	43	3	0	1	1	0	33	0	3	2
WV U.	542	7	1	7	8	0	196	4	6	313
East South Central	5,614	92	13	188	319	3	2,858	16	101	2,024
Alabama	2,257	37	8	106	151	0	1,097	3	30	825
Auburn U.	911	9	3	22	40	0	383	0	7	447
Tuskegee U.	94	0	0	0	41	0	1	0	6	46
U. AL, Birmingham	181	11	0	53	23	0	84	0	4	6
U. AL, Huntsville	592	9	5	18	32	0	445	3	9	71
U. AL, Tuscaloosa	329	6	0	9	14	0	162	0	4	134
U. South AL	150	2	0	4	1	0	22	0	0	121

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Kentucky	955	18	2	22	21	0	513	9	26	344
U. KY	453	11	2	4	5	0	207	4	22	198
U. Louisville	502	7	0	18	16	0	306	5	4	146
Mississippi	720	17	0	13	48	2	336	2	8	294
Jackson State U.	29	2	0	0	14	0	7	0	1	5
MS State U.	595	14	0	8	28	2	299	1	7	236
U. MS	96	1	0	5	6	0	30	1	0	53
Tennessee	1,682	20	3	47	99	1	912	2	37	561
East TN State U.	42	2	0	2	7	0	28	1	0	2
TN State U.	71	0	0	6	28	0	23	0	1	13
TN Technological U.	143	0	0	2	3	0	56	0	0	82
U. Memphis	164	0	0	5	12	1	77	0	2	67
U. TN, Chattanooga	75	3	0	3	6	0	23	0	22	18
U. TN, Health Science Ctr.	12	1	0	0	0	0	9	0	0	2
U. TN, Knoxville	811	12	3	18	27	0	488	1	12	250
Vanderbilt U.	364	2	0	11	16	0	208	0	0	127
West South Central	15,884	882	42	681	436	20	3,937	176	392	9,318
Arkansas	386	2	2	12	15	0	176	5	1	173
U. AR, Fayetteville	362	2	2	7	15	0	169	5	1	161
U. AR, Little Rock	24	0	0	5	0	0	7	0	0	12
Louisiana	1,410	31	2	25	57	2	341	0	35	917
LA State U.	807	25	2	19	23	2	217	0	32	487
LA Tech U.	286	3	0	0	9	0	58	0	0	216
McNeese State U.	74	2	0	0	0	0	11	0	0	61
Southern U. and A&M C.	36	0	0	4	24	0	8	0	0	0
Tulane U.	65	0	0	0	0	0	27	0	3	35
U. LA, Lafayette	142	1	0	2	1	0	20	0	0	118
Oklahoma	1,551	11	30	25	20	2	346	7	68	1,042
Northeastern State U.	20	0	6	1	0	0	11	0	0	2
OK State U.	655	4	8	4	3	1	114	2	0	519
U. OK	701	6	15	19	17	1	197	5	54	387
U. Tulsa	175	1	1	1	0	0	24	0	14	134
Texas	12,537	838	8	619	344	16	3,074	164	288	7,186
Baylor U.	28	1	0	2	3	0	14	1	0	7
Lamar U.	580	4	0	21	5	0	27	0	121	402
Prairie View A&M U.	80	2	1	11	31	0	4	0	1	30

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Rice U.	363	20	0	27	4	5	111	3	23	170
Southern Methodist U.	566	48	1	54	33	2	312	1	0	115
St. Mary's U., San Antonio	75	17	0	10	3	0	8	0	16	21
TX A&M U.	3,119	145	2	53	47	2	680	137	9	2,044
TX A&M U., Corpus Christi	20	6	0	0	0	0	14	0	0	0
TX A&M U., Kingsville	269	14	0	1	2	0	9	0	0	243
TX Southern U.	132	4	0	31	86	0	9	0	2	0
TX State U., San Marcos	22	1	0	2	4	0	12	0	1	2
TX Tech U.	759	52	1	10	7	0	279	3	5	402
U. Houston	918	49	1	75	21	0	191	5	3	573
U. Houston, Clear Lake	141	10	0	7	9	0	32	2	2	79
U. North TX, Denton	153	2	0	8	8	0	17	0	1	117
U. TX, Arlington	1,276	37	0	73	38	1	235	3	5	884
U. TX, Austin	2,125	77	1	134	13	5	781	1	10	1,103
U. TX, Dallas	757	26	0	68	12	0	121	2	19	509
U. TX, El Paso	416	171	1	7	3	0	21	0	1	212
U. TX, Health Science Ctr., San Antonio	38	1	0	2	0	0	9	0	21	5
U. TX, Pan American	100	52	0	1	1	0	7	0	6	33
U. TX, San Antonio	506	96	0	18	12	0	147	6	39	188
U. TX, Southwestern Medical Ctr., Dallas	22	0	0	2	0	0	7	0	0	13
U. TX, Tyler	54	1	0	2	2	0	17	0	2	30
West TX A&M U.	18	2	0	0	0	1	10	0	1	4
Mountain	10,779	630	65	449	152	14	5,359	122	476	3,512
Arizona	2,870	193	16	141	58	2	1,032	36	128	1,264
AZ State U.	2,088	140	11	112	39	2	759	10	91	924
Northern AZ U.	34	3	2	0	0	0	21	1	0	7
U. AZ	748	50	3	29	19	0	252	25	37	333
Colorado	3,398	130	11	138	44	5	1,929	11	181	949
CO School of Mines	522	17	3	15	3	1	275	1	24	183
CO State U., Ft. Collins	563	18	1	15	4	3	311	0	23	188
CO State U., Pueblo	20	1	0	0	0	0	5	0	0	14
U. CO	2,087	81	7	101	33	1	1,215	9	112	528
U. Denver	206	13	0	7	4	0	123	1	22	36
Idaho	784	34	4	25	11	0	513	10	35	152
Boise State U.	146	4	0	10	4	0	95	0	6	27
ID State U.	97	1	0	2	2	0	46	0	10	36
U. ID	541	29	4	13	5	0	372	10	19	89

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Montana	282	5	4	8	1	0	209	0	32	23
MT State U.	223	4	2	8	0	0	158	0	32	19
MT Tech of U. MT	59	1	2	0	1	0	51	0	0	4
Nevada	468	14	4	31	10	2	162	46	18	181
U. NV, Las Vegas	239	12	1	12	5	1	77	44	7	80
U. NV, Reno	229	2	3	19	5	1	85	2	11	101
New Mexico	1,135	205	25	46	26	1	408	7	64	353
NM Institute of Mining and Technology	129	18	2	22	15	0	57	2	2	11
NM State U.	435	86	3	5	7	0	91	2	30	211
U. NM	571	101	20	19	4	1	260	3	32	131
Utah	1,624	47	1	58	2	4	1,009	12	13	478
Brigham Young U.	376	14	1	3	0	1	289	2	1	65
U. UT	899	27	0	32	1	3	535	9	3	289
UT State U.	349	6	0	23	1	0	185	1	9	124
Wyoming	218	2	0	2	0	0	97	0	5	112
U. WY	218	2	0	2	0	0	97	0	5	112
Pacific[b]	24,727	1,151	59	3,575	469	83	7,673	193	1,697	9,827
Alaska	171	1	3	4	4	0	91	3	11	54
U. AK, Anchorage	69	1	3	3	1	0	50	0	6	5
U. AK, Fairbanks	102	0	0	1	3	0	41	3	5	49
California[b]	21,053	1,059	47	3,242	412	54	6,008	131	1,499	8,601
CA Institute of Technology	479	19	1	42	3	2	186	0	5	221
CA Polytechnic State U., San Luis Obispo	358	32	2	68	6	0	196	5	36	13
CA State Polytechnic U., Pomona	363	48	2	91	4	0	120	12	45	41
CA State U., Chico	22	0	0	0	0	0	3	0	3	16
CA State U., East Bay	46	5	0	9	2	0	5	0	2	23
CA State U., Fresno	36	7	0	3	0	0	11	0	2	13
CA State U., Fullerton	497	36	0	135	10	0	110	7	47	152
CA State U., Long Beach	468	57	2	130	17	5	86	8	32	131
CA State U., Los Angeles	306	50	0	63	17	0	30	0	16	130
CA State U., Northridge	644	42	1	54	6	4	146	4	53	334
CA State U., Sacramento	283	17	0	33	10	7	61	0	12	143
Humboldt State U.	9	0	0	0	0	0	6	1	2	0
Loyola Marymount U.	75	17	0	14	9	1	26	2	0	6
National U.	171	25	1	25	13	1	64	4	13	25
Naval Postgraduate School	1,473	87	6	100	84	0	976	0	76	144
San Diego State U.	320	28	0	21	6	12	68	4	20	161

TABLE 24. Graduate students in engineering in all institutions, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
San Francisco State U.	59	5	0	11	1	0	6	0	9	27
San Jose State U.	1,228	53	1	183	17	1	135	10	149	679
Santa Clara U.	607	20	0	163	10	5	141	6	46	216
Sonoma State U.	2	0	0	0	0	0	0	0	2	0
Stanford U.	3,237	105	11	461	59	4	856	0	332	1,409
U. CA, Berkeley	1,668	73	7	294	26	3	568	0	150	547
U. CA, Davis	795	30	3	131	14	4	290	0	50	273
U. CA, Irvine	712	26	2	136	2	1	127	7	57	354
U. CA, Los Angeles	1,576	61	0	371	26	2	425	19	113	559
U. CA, San Diego	1,089	35	3	203	2	1	301	13	40	491
U. CA, San Francisco	54	1	1	9	2	0	20	0	15	6
U. CA, Santa Barbara	533	17	2	58	4	0	199	0	44	209
U. CA, Santa Cruz	168	10	1	19	2	0	57	0	23	56
U. Southern CA	3,419	132	1	379	55	1	733	26	91	2,001
U. of the Pacific	35	6	0	8	1	0	13	3	1	3
Hawaii	243	4	0	64	1	22	50	22	1	79
U. HI, Manoa	243	4	0	64	1	22	50	22	1	79
Oregon	1,131	31	0	68	12	3	529	10	56	422
OR Health and Science U.	21	0	0	1	0	0	13	0	2	5
OR State U.	676	17	0	28	6	1	328	9	33	254
Portland State U.	428	14	0	39	6	2	188	1	20	158
U. OR	5	0	0	0	0	0	0	0	1	4
U. Portland	1	0	0	0	0	0	0	0	0	1
Washington	2,129	56	9	197	40	4	995	27	130	671
Central WA U.	44	0	0	1	4	0	15	1	3	20
St. Martin's U.	17	0	0	5	0	0	7	0	1	4
Seattle U.	49	0	0	13	1	0	13	0	4	18
U. WA	1,515	51	8	173	30	1	764	26	108	354
WA State U.	504	5	1	5	5	3	196	0	14	275
Outlying Areas	370	266	0	0	0	0	0	0	0	104
Puerto Rico	370	266	0	0	0	0	0	0	0	104
U. PR, Mayaguez	370	266	0	0	0	0	0	0	0	104

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; institutions are not listed separately.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
–	All institutions[b]	515,107	523,458	537,982	546,142	555,743	567,839	572,318	575,785
1	Walden U.	2,498	6,211	8,840	9,530	9,530	11,353	12,862	9,879
2	U. Southern CA	6,542	6,870	6,525	7,288	7,288	7,637	7,752	8,001
3	U. FL	6,740	6,918	7,311	7,443	7,633	7,919	7,496	7,759
4	TX A&M U.	5,650	5,728	5,887	6,146	6,146	6,584	6,927	7,301
5	U. WA	5,442	5,593	5,783	5,608	5,770	5,811	6,378	6,657
6	U. CO	6,157	5,371	5,467	5,557	5,614	6,068	6,460	6,577
7	U. MI	6,396	6,109	6,073	6,155	6,155	5,971	5,943	6,522
8	Purdue U.	4,395	4,661	4,828	4,827	4,859	5,269	5,508	6,340
9	U. IL, Urbana-Champaign	5,516	5,352	5,349	5,523	5,581	5,690	5,921	6,025
10	U. MN	7,343	6,817	6,732	6,674	6,852	6,957	6,925	5,970
11	Stanford U.	5,356	5,392	5,615	5,590	5,590	5,948	5,603	5,950
12	U. WI, Madison	5,377	5,259	5,085	5,133	5,133	5,477	5,743	5,814
13	OH State U.	5,058	5,112	4,830	5,367	5,391	5,501	5,578	5,775
14	U. MD, College Park	4,850	4,870	4,862	4,920	4,957	5,159	5,208	5,743
15	GA Institute of Technology	5,295	5,294	5,575	6,178	6,178	6,440	6,040	5,739
16	U. CA, Berkeley	5,785	5,781	5,768	5,811	5,811	5,459	5,490	5,462
17	NC State U.	4,130	4,202	4,178	4,927	4,927	5,126	5,399	5,361
18	AZ State U.	3,629	3,735	3,936	4,349	4,528	4,945	4,977	5,267
19	U. CA, Los Angeles	5,130	5,427	5,468	5,715	5,715	5,459	5,185	5,262
20	Cornell U.	4,040	4,096	4,167	4,349	4,393	4,591	4,853	5,148
21	George Mason U.	3,120	3,166	3,377	3,948	4,342	4,556	4,757	5,095
22	Boston U.	4,517	4,755	4,967	4,727	4,760	4,312	4,844	5,093
23	PA State U.	4,816	4,654	4,737	5,146	5,222	5,117	4,977	4,988
24	George Washington U.	6,157	6,265	5,991	5,103	5,118	5,484	4,850	4,910
25	MA Institute of Technology[c]	5,988	5,918	5,933	5,722	5,722	5,787	5,813	4,799
26	U. TX, Austin	4,308	4,340	4,384	4,471	4,683	4,643	4,819	4,759
27	Harvard U.	4,570	4,738	4,905	4,744	4,744	4,927	4,722	4,716
28	U. IL, Chicago	4,742	4,367	4,243	4,661	4,698	4,708	5,171	4,696
29	VA Polytechnic Institute and State U.	4,150	4,100	4,134	4,126	4,143	4,263	4,427	4,631
30	Columbia U. in the City of New York	3,634	3,995	4,154	4,268	4,268	4,325	4,196	4,600
31	Johns Hopkins U.	3,518	3,771	3,815	3,924	3,924	3,881	4,172	4,476
32	U. South FL, Tampa	2,895	3,176	3,233	3,353	3,511	3,688	3,853	4,134
33	U. AZ	3,310	3,289	3,137	3,866	3,935	3,864	3,909	4,111
34	IN U.	3,595	3,880	3,728	3,596	3,748	3,889	4,006	4,011
35	U. NC, Chapel Hill	3,378	3,551	3,455	3,329	3,380	3,763	3,580	3,875
36	U. Pittsburgh	3,820	3,877	3,915	3,522	3,522	3,718	3,922	3,795
37	Rutgers, State U. NJ	3,696	3,529	3,473	3,405	3,524	3,708	3,811	3,734
38	U. CA, Davis	3,519	3,572	3,563	3,604	3,614	3,568	3,687	3,718
39	MI State U.	2,990	2,987	3,053	3,081	3,264	3,490	3,432	3,599
40	SUNY, U. Buffalo	3,454	3,326	3,435	3,235	3,338	3,323	3,498	3,592
41	LA State U.[d]	3,283	2,371	2,869	3,020	3,166	3,281	3,566	3,489
42	U. Central FL	3,023	3,035	2,991	2,784	2,862	2,892	3,285	3,438
43	IA State U.	2,911	2,574	2,828	2,733	2,929	3,181	3,204	3,434
44	U. CA, San Diego	2,829	2,822	3,236	3,235	3,280	3,303	3,472	3,406
45	Carnegie Mellon U.	2,739	2,712	2,689	2,823	2,823	2,811	2,996	3,360
46	U. Cincinnati	2,659	3,467	3,272	3,197	3,197	3,085	3,295	3,245
47	NY U.	3,084	3,139	3,178	3,470	3,470	3,247	3,131	3,192
48	U. OK	2,591	2,604	2,505	2,638	2,731	2,819	2,693	3,185
49	U. UT	2,973	2,968	3,094	3,214	3,370	3,351	3,427	3,127
50	Northwestern U.	2,093	2,177	2,231	2,510	2,601	2,883	3,008	3,111
51	TX Tech U.	1,985	1,950	2,011	2,342	2,342	2,639	2,883	3,060
52	Nova Southeastern U.	3,246	3,297	3,287	3,263	3,263	3,468	2,996	3,056

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
53	U. CT	2,949	2,932	2,857	2,781	2,840	2,866	2,928	3,032
54	U. WI, Milwaukee	2,328	2,382	2,473	2,587	2,587	2,695	2,933	2,999
55	U. CA, Irvine	2,241	2,289	2,320	2,443	2,443	2,516	2,899	2,991
56	U. TX, Dallas	1,984	1,948	2,068	2,161	2,161	2,387	2,487	2,960
57	FL State U.	1,960	2,017	2,067	2,520	2,788	2,698	2,966	2,957
58	Wayne State U.	2,536	2,663	2,676	2,927	3,140	2,825	2,652	2,896
59	CO State U., Ft. Collins	2,640	2,639	2,617	2,635	2,678	2,632	2,678	2,870
60	U. KS	3,263	3,268	3,278	2,874	2,959	3,179	2,804	2,857
61	U. TX, Arlington	3,159	2,782	2,565	2,885	2,885	2,926	2,671	2,789
62	Syracuse U.	1,763	1,706	1,819	2,350	2,467	2,459	2,521	2,699
63	OR State U.	1,860	1,942	2,074	2,084	2,177	2,234	2,380	2,686
64	U. TN, Knoxville	2,963	3,021	2,996	2,652	2,922	3,053	2,688	2,673
65	Georgetown U.	1,099	1,146	2,599	2,606	2,798	2,832	2,941	2,671
66	U. Houston	2,044	2,101	2,062	2,098	2,098	2,187	2,427	2,657
67	IL Institute of Technology	1,403	1,276	2,145	2,443	2,444	2,630	2,606	2,629
68	U. MA, Amherst	2,232	2,198	2,316	2,409	2,483	2,489	2,441	2,594
69	Northeastern U.	1,854	1,972	2,172	2,266	2,266	2,125	2,195	2,544
70	Naval Postgraduate School	944	952	976	985	985	2,309	2,271	2,525
71	SUNY, U. Albany	2,371	2,431	2,565	2,548	2,616	2,595	2,569	2,515
72	SUNY, Stony Brook U.	3,124	3,021	3,527	3,279	3,279	2,186	2,336	2,494
73	U. KY	2,515	2,973	3,151	2,348	2,436	2,488	2,507	2,489
74	Southern IL U., Carbondale	1,723	1,819	1,824	1,901	1,901	2,248	2,421	2,444
75	U. PA	2,238	2,310	2,255	2,248	2,248	2,347	2,404	2,434
76	Clemson U.	1,763	1,698	1,657	1,713	1,713	1,885	2,134	2,386
77	U. HI, Manoa	2,108	2,092	2,058	2,036	2,036	2,273	2,333	2,367
78	U. MO, Columbia	1,991	2,056	2,067	2,120	2,560	2,230	2,186	2,324
79	U. NE, Lincoln	1,686	1,639	1,693	1,747	1,872	2,072	2,152	2,293
80	U. Chicago	1,388	1,658	1,835	1,780	1,780	2,173	2,182	2,292
81	Auburn U.	1,832	1,817	1,882	1,923	1,923	2,018	2,107	2,247
82	Stevens Institute of Technology	1,438	1,462	1,574	1,807	1,807	2,090	2,424	2,231
83	Drexel U.	2,883	3,233	3,233	2,539	2,544	1,798	2,185	2,223
84	OK State U.	1,644	1,550	1,578	1,869	1,971	2,057	2,115	2,190
85	Old Dominion U.	1,913	1,939	2,067	2,042	2,104	2,029	2,186	2,142
86	American U., Washington, DC	1,869	1,838	1,751	1,890	1,890	1,934	2,059	2,132
87	San Diego State U.	2,211	2,473	2,270	2,364	2,364	2,556	2,273	2,128
88	U. CA, Santa Barbara	1,972	2,006	1,928	2,006	2,031	2,032	1,994	2,117
89	U. NM	2,440	2,462	2,436	2,534	2,534	2,519	2,105	2,108
90	U. GA	2,070	2,035	1,992	2,093	2,093	2,220	2,119	2,093
91	NJ Institute of Technology	2,287	2,229	2,296	2,347	2,379	2,335	2,364	2,091
92	KS State U.	1,931	1,863	1,824	1,957	1,957	2,204	2,114	2,088
93	Duke U.	1,792	1,820	1,786	1,829	1,829	1,723	1,986	2,087
94	U. DE	1,835	1,904	1,961	1,795	1,861	1,887	2,073	2,086
95	FL International U.	2,035	2,097	2,454	2,643	2,754	2,658	2,398	2,084
96	Temple U.	2,602	2,326	2,253	1,814	1,873	2,109	2,192	2,083
97	U. IA	2,317	2,337	2,285	2,255	2,323	2,378	2,163	2,041
98	Yale U.	1,938	1,919	1,961	2,039	2,039	2,102	2,024	2,032
99	Polytechnic Institute of NY U.	737	843	954	1,201	1,201	1,566	1,805	1,973
100	CUNY, Graduate Ctr.	2,035	1,972	2,062	2,023	2,023	2,016	1,958	1,939
101	U. TX, San Antonio	588	1,089	1,139	1,444	1,478	1,484	1,643	1,939
102	WV U.	2,108	2,116	2,161	2,235	2,256	2,120	2,015	1,932
103	U. VA	2,082	2,087	2,077	2,124	2,124	2,143	2,071	1,931
104	Princeton U.	1,594	1,538	1,678	1,703	1,703	1,807	1,806	1,904
105	MS State U.	1,582	1,586	1,600	1,761	1,761	1,760	1,770	1,893

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
106	VA Commonwealth U.	2,074	1,944	2,020	2,175	2,175	2,193	2,312	1,886
107	U. NC, Charlotte	1,249	1,293	1,330	1,492	1,492	1,662	1,785	1,885
108	WA State U.	1,550	1,501	1,640	1,568	1,568	1,638	1,897	1,873
109	U. North TX, Denton	1,349	1,358	1,444	1,559	1,692	1,593	1,863	1,857
110	Portland State U.	1,547	1,824	1,809	1,819	1,956	2,017	2,142	1,846
111	U. Akron	1,367	1,376	1,393	1,454	1,513	1,639	1,790	1,829
112	Tufts U.	1,493	1,525	1,461	1,463	1,505	1,607	1,738	1,815
113	U. TX, Health Science Ctr., Houston	1,337	1,363	1,343	1,342	1,342	1,425	1,447	1,804
114	OH U.	965	1,042	1,042	1,583	1,583	1,648	1,907	1,789
115	Case Western Reserve U.	1,811	1,710	1,652	1,694	1,694	1,703	1,701	1,770
116	U. SC	1,558	1,486	1,652	1,829	1,829	1,778	1,896	1,770
117	CA State U., Long Beach	1,686	1,620	1,911	1,908	1,942	1,773	1,798	1,758
118	NM State U.	1,350	1,346	1,292	1,422	1,422	1,546	1,662	1,730
119	Columbia U. in the City of New York, Teachers C.	1,481	1,504	1,532	1,551	1,551	1,583	1,657	1,723
120	U. MD, Baltimore County	1,250	1,425	1,447	1,464	1,464	1,669	1,866	1,718
121	Western MI U.	1,583	1,367	1,440	1,332	1,522	1,728	1,539	1,703
122	Vanderbilt U.	1,409	1,467	1,452	1,504	1,504	1,583	1,552	1,677
123	Brigham Young U.	1,095	1,578	1,735	1,434	1,434	1,519	1,584	1,645
124	SUNY, Binghamton U.	1,318	1,275	1,455	1,488	1,488	1,525	1,579	1,644
125	U. Denver	901	937	1,218	1,291	1,382	1,367	1,866	1,634
126	Washington U., St. Louis	1,832	1,773	2,142	2,023	2,023	2,003	1,831	1,631
127	U. MA, Lowell	1,211	1,194	1,337	1,247	1,247	1,363	1,511	1,582
128	U. CA, Riverside[e]	1,194	1,239	1,258	1,384	1,384	1,476	1,504	NA
129	U. AL, Birmingham	2,405	2,413	2,322	2,238	2,238	2,032	1,606	1,567
130	DePaul U.	3,227	3,058	2,914	2,574	2,574	2,042	1,579	1,566
131	Eastern MI U.	970	1,021	1,112	1,184	1,310	1,414	1,479	1,543
132	U. Louisville	1,633	1,583	1,572	1,441	1,466	1,454	1,450	1,540
133	TX State U., San Marcos	974	938	911	1,132	1,274	1,327	1,449	1,521
134	Wichita State U.	1,514	1,409	1,429	1,460	1,543	1,475	1,630	1,509
135	Antioch U.	1,368	1,429	1,410	1,574	1,574	1,560	1,609	1,506
136	U. NV, Las Vegas	1,107	1,167	1,318	1,472	1,525	1,606	1,688	1,488
137	GA State U.	1,581	1,652	1,651	1,378	1,378	1,388	1,607	1,487
138	Emory U.	1,178	1,243	1,256	1,275	1,275	1,394	1,420	1,483
139	New School	1,247	1,285	1,290	1,342	1,342	1,383	1,454	1,483
140	Rochester Institute of Technology	733	714	744	848	848	1,408	1,287	1,433
141	U. Rochester	1,414	1,479	1,558	1,599	1,599	1,633	1,459	1,403
142	Cleveland State U.	1,425	1,381	1,381	1,456	1,456	1,569	1,228	1,374
143	U. Miami	1,285	1,323	1,414	1,360	1,360	1,207	1,303	1,370
144	U. AR, Fayetteville	1,571	1,578	1,652	1,701	1,701	1,761	1,785	1,336
145	ND State U.	1,076	1,073	908	1,018	1,094	1,135	1,231	1,327
146	UT State U.	1,258	1,307	1,223	1,294	1,294	1,315	1,353	1,327
147	FL Atlantic U.	1,284	1,315	1,345	1,371	1,493	1,514	1,544	1,322
148	Tulane U.[d]	2,169	NA	1,230	1,287	1,287	1,368	1,416	1,322
149	Brown U.	1,027	1,004	1,002	1,084	1,084	1,109	1,185	1,282
150	U. ID	1,254	1,211	1,051	1,024	1,024	1,075	1,173	1,269
151	Northern IL U.	1,504	1,560	1,590	1,607	1,607	1,663	1,404	1,266
152	TX Woman's U.	1,897	2,253	2,140	1,183	1,366	1,349	1,550	1,259
153	Wright State U.	1,375	1,384	1,315	1,360	1,360	1,361	1,419	1,248
154	U. NV, Reno	1,197	1,200	1,236	1,290	1,301	1,460	1,226	1,241
155	Towson U.	997	1,057	1,037	1,059	1,059	1,102	1,199	1,232
156	MO U. of Science and Technology	1,071	1,071	1,316	1,223	1,223	1,318	1,460	1,228
157	CO School of Mines	735	748	776	846	846	945	1,084	1,221
158	U. Bridgeport	631	616	897	1,477	1,477	1,809	1,405	1,209

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
159	CA Institute of Technology	1,288	1,268	1,239	1,221	1,221	1,215	1,179	1,208
160	CUNY, City C.	900	912	869	932	932	967	1,112	1,200
161	U. CA, Santa Cruz	983	995	992	1,003	1,003	1,118	1,162	1,194
162	U. Notre Dame	1,028	1,071	1,075	1,107	1,107	1,080	1,123	1,180
163	East Carolina U.	933	1,109	1,445	1,558	1,618	1,780	1,077	1,178
164	U. RI	1,220	1,265	1,175	1,050	1,050	1,071	1,134	1,158
165	U. AL, Tuscaloosa	1,017	909	889	910	910	930	1,078	1,157
166	U. Toledo[f]	908	898	789	1,548	1,548	1,485	1,106	1,157
167	U. TX, El Paso	1,130	988	1,101	1,076	1,076	930	972	1,150
168	U. WY	994	1,025	964	902	941	956	1,050	1,140
169	Rice U.	1,009	1,041	1,072	1,086	1,086	1,042	1,061	1,129
170	Brandeis U.	399	384	396	749	951	1,003	1,051	1,125
171	Kent State U.	966	936	966	984	1,017	1,045	1,399	1,114
172	U. MO, Kansas City	981	1,069	1,145	1,209	1,209	1,367	1,400	1,097
173	Fairleigh Dickinson U.	1,603	1,784	1,735	1,171	1,269	1,256	1,195	1,095
174	Worcester Polytechnic Institute	638	683	690	663	663	689	939	1,093
175	CUNY, Queens C.	211	666	709	698	698	775	1,047	1,090
176	Santa Clara U.[e]	765	785	785	747	747	NA	917	1,073
177	Lehigh U.	803	816	808	861	861	878	1,029	1,067
178	Fielding Graduate U.	1,057	629	611	936	1,020	1,076	1,096	1,056
179	MI Technological U.	746	738	753	759	759	813	924	1,045
180	Long Island U.[e]	2,275	2,656	2,613	1,836	1,836	1,205	NA	1,035
181	Rensselaer Polytechnic U., Troy	1,074	972	1,064	1,017	1,063	1,070	1,060	1,035
182	U. NH	1,121	1,131	1,104	1,095	1,095	1,083	1,009	1,029
183	Villanova U.	882	830	811	846	886	921	983	1,029
184	Seton Hall U.	879	1,015	1,000	971	971	1,105	1,165	1,024
185	U. Southern MS	909	974	846	834	834	916	997	1,006
186	Pepperdine U.	833	931	942	932	947	683	1,102	1,002
187	U. AL, Huntsville	1,135	1,046	1,052	1,121	1,121	936	922	999
188	FL Institute of Technology	1,043	966	874	949	949	936	1,000	979
189	U. NE, Omaha	830	858	901	937	996	971	983	960
190	Ball State U.	728	834	854	938	938	1,053	735	945
191	IL State U.	624	640	636	699	814	860	887	945
192	U. Memphis	946	941	893	836	836	813	871	920
193	Southern Methodist U.	1,170	1,293	1,222	1,227	1,227	1,201	880	911
194	St. Louis U.	959	1,128	1,139	1,350	1,390	1,635	1,050	908
195	Alliant International U.	1,211	1,252	1,327	1,283	1,283	1,406	927	907
196	U. Dayton	534	513	502	899	899	850	867	896
197	St. John's U.	826	1,362	1,484	1,003	1,003	1,026	1,030	886
198	U. AK, Fairbanks	625	602	661	672	807	802	859	882
199	U. IL, Springfield	548	644	773	796	796	751	780	882
200	U. NC, Greensboro	979	1,033	1,070	1,166	1,202	763	819	872
201	Miami U.	584	633	638	623	623	644	781	862
202	MT State U.	673	675	701	779	875	880	898	847
203	U. PR, Mayaguez	906	888	877	882	882	884	883	844
204	U. OR	738	744	727	680	680	701	721	835
205	TX Southern U.	669	943	890	390	453	505	599	831
206	U. PR, Medical Sciences Campus	911	963	958	970	970	920	864	828
207	Yeshiva U.	659	776	722	712	712	709	655	819
208	Claremont Graduate U.	693	711	697	681	681	729	761	809
209	Air Force Institute of Technology	897	966	806	755	755	655	689	802
210	Montclair State U.	501	551	569	538	538	694	926	802

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
211	Dartmouth C.	671	702	672	720	720	708	768	790
212	U. ND	695	809	891	944	980	1,172	1,217	789
213	Oakland U.	1,138	1,149	1,181	984	984	951	749	773
214	Northern AZ U.	704	668	1,117	976	976	853	722	768
215	Pontifical Catholic U. PR	486	517	546	549	549	647	706	767
216	Lamar U.	774	547	501	575	575	608	683	765
217	Maharishi U. of Management	277	368	366	535	535	632	568	765
218	U. VT	718	746	757	782	782	728	771	764
219	U. ME	736	744	728	812	812	831	817	755
220	Azusa Pacific U.	419	446	478	516	516	595	733	750
221	Quinnipiac U.	526	484	447	494	494	561	679	745
222	Southern U. and A&M C.	908	916	909	550	574	575	505	742
223	Boston C.	657	631	652	868	868	732	728	736
224	Fordham U.	411	380	430	557	557	651	840	730
225	Adelphi U.	682	738	767	771	771	723	749	728
226	U. CA, San Francisco	1,215	1,223	1,173	884	884	954	795	726
227	U. MO, St. Louis	707	659	699	671	671	693	727	721
228	Howard U.	827	732	701	630	630	611	685	717
229	Bowling Green State U.	673	656	689	671	747	869	887	706
230	U. NE, Medical Ctr.	464	474	532	607	607	607	565	700
231	SD State U.	655	654	665	523	523	598	666	698
232	Indiana U. PA	614	552	648	670	676	685	747	695
233	Loyola U., MD	633	681	692	663	663	624	696	695
234	U. PR, Rio Piedras	1,306	1,588	1,497	1,179	1,179	1,084	1,094	695
235	Central MI U.	689	682	666	563	597	597	654	691
236	U. MT	765	789	776	743	743	725	741	681
237	CUNY, Hunter C.	918	1,061	1,080	1,137	1,137	669	885	679
238	Loyola U., Chicago	732	781	770	940	940	1,127	937	666
239	Marshall U.	748	775	747	683	686	692	705	662
240	U. of Medicine and Dentistry of NJ	479	533	578	694	694	662	711	661
241	U. TX, Southwestern Medical Ctr., Dallas	626	693	682	705	705	726	676	657
242	Marquette U.	1,239	1,173	1,188	1,157	1,157	714	496	655
243	Loma Linda U.	1,181	1,229	1,086	552	590	650	566	654
244	East TN State U.	534	609	720	820	852	902	650	641
245	U. AR for Medical Sciences	494	523	539	583	583	583	607	641
246	U. North TX, Health Science Ctr.	424	432	472	473	473	517	603	630
247	ID State U.	582	682	648	599	599	609	533	629
248	TX A&M U., Kingsville	703	712	708	1,045	1,045	833	814	627
249	U. MS	806	854	833	575	575	462	489	625
250	U. SD	371	368	392	318	318	351	656	624
251	U. LA, Lafayette	566	650	553	585	585	687	682	616
252	Baylor C. of Medicine	533	662	685	716	716	679	582	608
253	TN State U.	521	579	372	592	592	416	512	600
254	NY Medical C.	378	378	392	469	469	474	555	578
255	Catholic U. America	502	486	498	352	352	593	620	568
256	U. South AL	1,220	1,269	1,369	1,600	1,633	1,578	594	565
257	NC Agricultural and Technical State U.	343	322	394	377	392	456	516	563
258	Baylor U.	416	414	483	587	594	675	532	561
259	U. MA, Boston	741	746	732	776	776	851	586	542
260	Stephen F. Austin State U.	450	398	409	418	418	548	495	535
261	U. Detroit Mercy[e]	594	598	630	516	516	NA	NA	NA
262	U. Central AR	477	589	745	763	779	956	685	531
263	Barry U.	760	792	814	469	469	444	445	522

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
264	U. Northern CO	585	653	605	780	898	844	724	520
265	U. MA, Dartmouth	377	414	465	456	456	469	426	517
266	Wake Forest U.	395	412	436	455	472	453	469	515
267	Boise State U.	395	422	442	524	546	500	586	500
268	TX A&M Health Science Ctr.[g]	108	105	95	92	92	548	460	500
269	Middle TN State U.	268	280	273	335	350	618	660	494
270	FL A&M U.	458	460	527	496	496	552	530	493
271	OR Health and Science U.[h]	296	307	305	328	328	574	466	487
272	U. NC, Wilmington	323	337	362	437	437	450	537	482
273	U. Baltimore	405	386	399	442	442	470	494	475
274	Pace U.	1,030	872	838	628	628	673	483	470
275	Clark U.	379	347	323	336	336	344	363	469
276	U. MD, Baltimore	1,080	925	1,106	1,286	1,286	1,350	463	468
277	LA Tech U.	664	542	463	407	407	408	433	462
278	GA Southern U.	349	333	341	406	406	437	411	451
279	U. MA, Medical School	475	569	549	567	567	406	418	448
280	SUNY, C. of Environmental Science and Forestry	398	429	392	388	388	400	443	447
281	Jackson State U.	324	393	347	366	366	407	427	438
282	Palo Alto U.	267	258	272	298	298	322	343	428
283	AR State U.	450	449	534	347	347	364	374	423
284	U. Northern IA	222	219	180	237	293	286	382	422
285	C. of William and Mary	454	447	473	455	455	462	464	419
286	U. La Verne	398	423	388	371	371	408	357	413
287	U. Tulsa	392	356	361	351	351	373	406	407
288	Hofstra U.	522	502	475	480	480	483	371	399
289	Sacred Heart U.	270	242	241	310	310	394	535	398
290	U. TX, Health Science Ctr., San Antonio	556	412	417	600	600	434	450	397
291	TX A&M U., Commerce	306	391	353	406	406	393	727	395
292	U. TX, Tyler	284	322	318	380	406	419	293	394
293	U. San Diego	241	257	294	321	334	359	371	392
294	U. AR, Little Rock	308	244	290	229	229	251	333	390
295	Lawrence Technological U.	306	342	416	555	555	451	443	385
296	Morgan State U.	346	331	311	363	373	381	354	383
297	James Madison U.	278	299	328	318	348	340	370	372
298	CA Institute of Integral Studies	542	609	631	648	648	714	350	371
299	Duquesne U.	447	449	489	478	478	387	356	370
300	TX A&M U., Corpus Christi	551	461	459	509	509	317	370	367
301	Prairie View A&M U.	311	434	465	514	514	458	338	360
302	TN Technological U.	293	278	259	256	256	245	328	333
303	Sam Houston State U.	440	163	275	253	253	288	315	330
304	Mercer U.	155	178	213	474	474	400	295	325
305	Clarkson U.	269	290	321	332	344	350	322	316
306	Rush U.[e]	445	458	541	457	457	705	345	NA
307	U. of the Sciences Philadelphia	266	262	295	283	283	285	308	302
308	NM Institute of Mining and Technology	316	318	302	304	304	320	314	300
309	U. TN, Health Science Ctr.	305	285	295	271	271	261	277	298
310	U. TX, Medical Branch	714	873	663	335	335	314	299	295
311	West TX A&M U.	289	321	333	357	357	378	355	286
312	U. TN, Chattanooga	420	465	482	499	499	272	265	281
313	Chapman U.	446	507	411	470	470	54	216	278
314	Embry-Riddle Aeronautical U.	115	139	145	155	155	157	225	276
315	U. Hartford	507	516	558	538	538	417	290	273

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
316	Andrews U.	217	232	237	235	235	254	286	268
317	Mayo Graduate School	232	224	246	229	229	243	250	264
318	Thomas Jefferson U.	527	638	702	613	613	260	283	261
319	SD School of Mines and Technology	272	234	235	231	231	234	262	260
320	Carlos Albizu U.	656	649	621	581	581	572	250	257
321	Hampton U.	468	493	506	226	226	229	232	257
322	Fuller Theological Seminary	348	386	384	341	341	235	228	253
323	Medical U. SC	303	303	411	255	255	259	235	243
324	GA Health Sciences U.	215	249	297	369	369	412	202	242
325	McNeese State U.	214	188	185	340	340	193	226	241
326	Eastern VA Medical School	211	192	207	225	225	239	218	239
327	Clark Atlanta U.	173	180	183	249	249	197	243	232
328	U. of the Pacific	208	201	204	221	238	253	170	225
329	Medical C. WI	159	181	202	220	220	194	171	215
330	Rockefeller U.	193	200	199	178	178	225	215	193
331	Creighton U.	236	229	198	193	193	197	272	192
332	TX Christian U.	125	132	151	171	183	225	174	183
333	Marywood U.	608	363	357	221	320	235	234	181
334	Mt. Sinai School of Medicine	204	215	241	301	301	259	178	175
335	IN State U.	593	693	808	464	499	296	235	173
336	Uniformed Services U. of the Health Sciences	166	168	184	173	173	163	166	173
337	Tuskegee U.	131	109	123	115	115	142	182	170
338	Gallaudet U.	95	94	101	68	68	149	171	168
339	U. LA, Monroe	134	111	107	161	176	176	168	164
340	AL A&M U.	198	182	221	224	224	179	151	153
341	Alfred U.	161	151	153	212	212	168	133	138
342	CUNY, C. Staten Island	121	141	171	89	89	98	120	135
343	Wesleyan U.	134	126	120	127	127	121	118	133
344	SUNY, Upstate Medical U.	155	152	143	129	129	127	125	132
345	U. MD, Eastern Shore	193	199	218	236	236	134	120	127
346	Russell Sage C.	270	260	249	194	194	220	81	117
347	Albany Medical C.	153	180	184	228	228	270	224	110
348	Morehouse School of Medicine	32	26	27	28	28	31	116	110
349	Meharry Medical C.	101	81	71	77	77	82	101	106
350	VA State U.	80	85	73	74	74	105	100	105
351	Frederick S. Pardee RAND Graduate School	91	101	96	103	103	111	115	103
352	DE State U.	7	50	84	81	81	91	93	100
353	SUNY, Downstate Medical Ctr.	86	82	87	83	83	81	81	88
354	Bryn Mawr C.	84	87	84	84	84	98	69	65
355	CUNY, John Jay C. of Criminal Justice	1,541	1,567	1,527	1,721	1,721	1,709	301	64
356	Biola U.	36	38	43	34	34	42	48	48
357	Forest Institute of Professional Psychology	214	205	217	221	221	231	257	42
358	SUNY, C. of Optometry	28	22	27	28	28	35	49	42
359	Rosalind Franklin U. of Medicine and Science	215	197	105	43	43	41	42	38
360	MA C. of Pharmacy and Health Sciences	90	88	66	55	55	53	56	35
361	Ponce School of Medicine	25	29	27	30	30	30	33	35
362	AL State U.	14	26	20	39	39	19	29	30
363	Woods Hole Oceanographic Institution[c]	139	139	145	na	na	na	na	na

TABLE 25. Doctorate-granting institutions ranked by 2010 graduate student total in science, engineering, and health: 2004–10

Rank	Institution	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010
–	Baylor C. of Dentistry[g]	70	72	73	72	72	na	na	na
–	Medical U. OH[f]	112	131	133	na	na	na	na	na
–	OGI School of Science & Engineering at OR Health & Science U.[h]	197	145	192	146	146	na	na	na

na = not applicable; school did not exist under this name. NA = not available; data were not collected from this institution in this year.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Totals for 2004–10 represent number of graduate students in all institutions that were doctorate granting in 2010 and differ from totals in other tables for doctorate-granting institutions in this report. See appendix A for more detail. Imputed counts associated with nonparticipating institutions are not listed in table for 2008 and later years but are included in "all institutions" totals for each year.

[c] Graduate students in joint programs of Woods Hole Oceanographic Institution and MA Institute of Technology are reported under MA Institute of Technology from 2007 to 2010.

[d] Tulane U. and two LA State U. New Orleans campuses were closed in fall 2005 because of Hurricane Katrina and did not report data.

[e] Totals for "all institutions" include data imputed for nonresponding institutions; for 2008 and later years, data imputed for nonresponding institutions are not shown separately.

[f] In 2007 Medical U. OH merged with U. Toledo.

[g] Starting in 2008 graduate students at Baylor C. of Dentistry are reported under TX A&M U. System Health Science Ctr.

[h] Starting in 2008 graduate students at OGI School of Science & Engineering are reported under OR Health & Science U.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 26. Black or African American, full-time graduate students in science, engineering, and health in all institutions and in historically black colleges and universities, by field and sex: 2006–10

	Male						Female					
Field	2006	2007old[a]	2007new[a]	2008	2009	2010	2006	2007old[a]	2007new[a]	2008	2009	2010
Black or African American students in all institutions (n)	6,768	6,776	6,895	7,384	7,632	7,883	13,168	12,849	13,183	14,519	14,730	14,728
Science and engineering	5,727	5,825	5,974	6,422	6,741	6,968	9,131	9,178	9,554	10,417	11,038	11,226
Science	4,283	4,402	4,528	4,891	5,169	5,301	8,435	8,432	8,780	9,665	10,238	10,424
Agricultural sciences	108	99	102	122	100	133	199	184	183	189	174	199
Biological sciences	755	789	795	851	899	937	1,663	1,697	1,714	1,794	1,932	1,921
Communication[a]	ne	ne	76	108	126	132	ne	ne	203	227	240	269
Computer sciences	459	535	529	521	573	609	279	290	284	282	341	354
Earth, atmospheric, and ocean sciences	77	83	81	92	107	112	109	113	110	115	116	116
Family and consumer sciences/ human sciences[a]	ne	ne	20	19	35	34	ne	ne	122	136	194	184
Mathematical sciences	210	227	227	230	253	237	210	196	195	172	180	188
Multidisciplinary/interdisciplinary studies[a]	ne	ne	49	57	74	103	ne	ne	82	112	159	217
Neuroscience[a]	na	na	23	27	32	34	na	na	32	33	49	48
Physical sciences	402	375	375	394	394	400	383	397	395	392	406	420
Psychology[b]	576	552	548	665	639	604	2,410	2,358	2,329	2,758	2,814	2,810
Social sciences	1,696	1,742	1,703	1,805	1,937	1,966	3,182	3,197	3,131	3,455	3,633	3,698
Engineering	1,444	1,423	1,446	1,531	1,572	1,667	696	746	774	752	800	802
Health[a,b]	1,041	951	921	962	891	915	4,037	3,671	3,629	4,102	3,692	3,502
Black or African American students in HBCUs (n)	1,241	998	1,012	959	1,060	1,206	2,175	1,842	1,883	1,892	1,914	2,158
Science and engineering	1,044	903	916	870	983	1,132	1,514	1,396	1,429	1,448	1,611	1,854
Science	802	684	684	637	744	868	1,402	1,280	1,302	1,315	1,463	1,696
Agricultural sciences	43	33	33	55	37	66	92	77	77	103	86	100
Biological sciences	117	113	117	121	118	126	248	251	259	270	346	381
Communication[a]	ne	ne	10	7	13	31	ne	ne	28	21	23	44
Computer sciences	78	56	56	52	58	67	46	48	47	49	46	62
Earth, atmospheric, and ocean sciences	20	16	16	11	17	19	20	14	14	25	19	22
Family and consumer sciences/ human sciences[a]	ne	ne	2	1	4	4	ne	ne	11	10	21	24
Mathematical sciences	37	45	45	35	46	35	48	39	39	22	32	32
Multidisciplinary/interdisciplinary studies[a]	ne	ne	6	5	7	12	ne	ne	7	7	6	11
Neuroscience[a]	na	na	0	0	4	3	na	na	0	0	14	9
Physical sciences	105	76	76	80	76	78	79	86	86	83	91	100
Psychology[b]	81	64	64	58	59	67	284	281	281	246	227	218
Social sciences	321	281	259	212	305	360	585	484	453	479	552	693
Engineering	242	219	232	233	239	264	112	116	127	133	148	158
Health[a,b]	197	95	96	89	77	74	661	446	454	444	303	304
Black or African American students in HBCUs (%)	18.3	14.7	14.7	13.0	13.9	15.3	16.5	14.3	14.3	13.0	13.0	14.7
Science and engineering	18.2	15.5	15.3	13.5	14.6	16.2	16.6	15.2	15.0	13.9	14.6	16.5
Science	18.7	15.5	15.1	13.0	14.4	16.4	16.6	15.2	14.8	13.6	14.3	16.3
Agricultural sciences	39.8	33.3	32.4	45.1	37.0	49.6	46.2	41.8	42.1	54.5	49.4	50.3
Biological sciences	15.5	14.3	14.7	14.2	13.1	13.4	14.9	14.8	15.1	15.1	17.9	19.8
Communication[a]	ne	ne	13.2	6.5	10.3	23.5	ne	ne	13.8	9.3	9.6	16.4
Computer sciences	17.0	10.5	10.6	10.0	10.1	11.0	16.5	16.6	16.5	17.4	13.5	17.5
Earth, atmospheric, and ocean sciences	26.0	19.3	19.8	12.0	15.9	17.0	18.3	12.4	12.7	21.7	16.4	19.0
Family and consumer sciences/ human sciences[a]	ne	ne	10.0	5.3	11.4	11.8	ne	ne	9.0	7.4	10.8	13.0
Mathematical sciences	17.6	19.8	19.8	15.2	18.2	14.8	22.9	19.9	20.0	12.8	17.8	17.0
Multidisciplinary/interdisciplinary studies[a]	ne	ne	12.2	8.8	9.5	11.7	ne	ne	8.5	6.3	3.8	5.1
Neuroscience[a]	na	na	0.0	0.0	12.5	8.8	na	na	0.0	0.0	28.6	18.8
Physical sciences	26.1	20.3	20.3	20.3	19.3	19.5	20.6	21.7	21.8	21.2	22.4	23.8

TABLE 26. Black or African American, full-time graduate students in science, engineering, and health in all institutions and in historically black colleges and universities, by field and sex: 2006–10

Field	Male						Female					
	2006	2007old[a]	2007new[a]	2008	2009	2010	2006	2007old[a]	2007new[a]	2008	2009	2010
Psychology[b]	14.1	11.6	11.7	8.7	9.2	11.1	11.8	11.9	12.1	8.9	8.1	7.8
Social sciences	18.9	16.1	15.2	11.7	15.7	18.3	18.4	15.1	14.5	13.9	15.2	18.7
Engineering	16.8	15.4	16.0	15.2	15.2	15.8	16.1	15.5	16.4	17.7	18.5	19.7
Health[a,b]	18.9	10.0	10.4	9.3	8.6	8.1	16.4	12.1	12.5	10.8	8.2	8.7

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

HBCUs = historically black colleges and universities.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] Beginning with 2008, more rigorous follow-up was done with institutions regarding exclusion of practitioner-oriented graduate degree programs in psychology and in other health (a subfield of health). This change may affect interpretation of trends in these fields.

NOTE: "Black or African American" includes U.S. citizens and permanent residents who report a single race and are not of Hispanic origin.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 27. Postdoctoral appointees in science, engineering, and health in all institutions, by field: 1979–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine[a]	Other health
1979	18,101	13,586	12,519	1,067	4,515	4,035	480
1980	18,399	14,023	13,042	981	4,376	3,899	477
1981	19,634	14,771	13,731	1,040	4,863	4,328	535
1982	19,363	14,678	13,698	980	4,685	4,058	627
1983	20,712	15,670	14,562	1,108	5,042	4,450	592
1984	21,535	16,182	14,979	1,203	5,353	4,713	640
1985	22,387	16,932	15,576	1,356	5,455	4,746	709
1986	23,721	17,917	16,512	1,405	5,804	5,094	710
1987	24,881	18,815	17,369	1,446	6,066	5,302	764
1988	26,123	19,714	18,024	1,690	6,409	5,552	857
1989	27,932	20,906	18,978	1,928	7,026	6,166	860
1990	29,565	21,803	19,853	1,950	7,762	6,945	817
1991	30,865	22,857	20,595	2,262	8,008	7,168	840
1992	32,747	23,883	21,514	2,369	8,864	7,977	887
1993	34,322	24,665	22,219	2,446	9,657	8,625	1,032
1994	36,377	25,787	23,181	2,606	10,590	9,411	1,179
1995	35,926	26,160	23,512	2,648	9,766	8,594	1,172
1996	37,107	26,569	23,892	2,677	10,538	9,362	1,176
1997	38,481	27,264	24,293	2,971	11,217	9,990	1,227
1998	40,086	27,876	25,023	2,853	12,210	10,957	1,253
1999	40,800	28,980	25,784	3,196	11,820	10,623	1,197
2000	43,115	30,224	26,911	3,313	12,891	11,555	1,336
2001	43,311	30,196	27,044	3,152	13,115	11,663	1,452
2002	45,034	31,937	28,371	3,566	13,097	11,582	1,515
2003	46,728	33,666	29,856	3,810	13,062	11,445	1,617
2004	47,240	34,065	30,116	3,949	13,175	11,477	1,698
2005	48,555	34,456	30,290	4,166	14,099	12,323	1,776
2006	49,343	34,887	30,245	4,642	14,456	12,584	1,872
2007old[b]	50,712	35,894	30,986	4,908	14,818	12,805	2,013
2007new[b]	50,840	36,223	31,281	4,942	14,617	12,472	2,145
2008	54,164	38,203	32,741	5,462	15,961	13,837	2,124
2009	57,805	40,804	34,388	6,416	17,001	14,601	2,400
2010[c]	63,415	44,051	37,095	6,956	19,364	16,610	2,754

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 28. Postdoctoral appointees in science in all institutions, by science field: 1979–2010

Year	Total	Agricultural sciences	Biological sciences	Communication[a]	Computer sciences	Earth, atmospheric, and ocean sciences	Family and consumer sciences/ human sciences[a]	Mathematical sciences	Multidisciplinary/ interdisciplinary studies[a]	Neuroscience[a]	Physical sciences	Psychology	Social sciences
1979	12,519	228	6,866	ne	38	315	ne	162	ne	na	4,056	454	400
1980	13,042	259	7,083	ne	43	312	ne	162	ne	na	4,279	475	429
1981	13,731	292	7,678	ne	35	346	ne	113	ne	na	4,477	471	319
1982	13,698	302	7,713	ne	47	340	ne	194	ne	na	4,298	520	284
1983	14,562	318	8,337	ne	80	420	ne	170	ne	na	4,458	437	342
1984	14,979	384	8,683	ne	59	493	ne	203	ne	na	4,408	423	326
1985	15,576	374	9,128	ne	70	379	ne	226	ne	na	4,539	510	350
1986	16,512	421	9,692	ne	75	420	ne	201	ne	na	4,860	521	322
1987	17,369	453	10,353	ne	103	424	ne	229	ne	na	4,968	460	379
1988	18,024	476	10,653	ne	96	496	ne	284	ne	na	5,201	498	320
1989	18,978	522	11,425	ne	84	453	ne	225	ne	na	5,366	536	367
1990	19,853	536	11,909	ne	71	594	ne	249	ne	na	5,592	464	438
1991	20,595	580	12,455	ne	120	625	ne	206	ne	na	5,722	508	379
1992	21,514	640	13,158	ne	145	692	ne	201	ne	na	5,792	525	361
1993	22,219	720	13,778	ne	164	765	ne	224	ne	na	5,669	521	378
1994	23,181	729	14,379	ne	185	824	ne	239	ne	na	5,884	551	390
1995	23,512	724	14,659	ne	213	845	ne	262	ne	na	5,851	582	376
1996	23,892	699	14,890	ne	250	861	ne	326	ne	na	5,828	594	444
1997	24,293	724	15,082	ne	322	942	ne	308	ne	na	5,968	586	361
1998	25,023	695	15,761	ne	374	902	ne	279	ne	na	6,004	617	391
1999	25,784	750	16,097	ne	334	925	ne	351	ne	na	6,157	716	454
2000	26,911	822	16,734	ne	344	1,155	ne	385	ne	na	6,270	730	471
2001	27,044	833	17,032	ne	336	1,049	ne	353	ne	na	6,223	809	409
2002	28,371	963	17,640	ne	356	1,129	ne	395	ne	na	6,619	815	454
2003	29,856	1,054	18,625	ne	355	1,182	ne	449	ne	na	6,829	960	402
2004	30,116	959	18,716	ne	384	1,263	ne	468	ne	na	7,059	902	365
2005	30,290	1,007	18,747	ne	406	1,364	ne	500	ne	na	7,011	884	371
2006	30,245	927	18,807	ne	467	1,495	ne	579	ne	na	6,703	873	394
2007old[a]	30,986	948	19,218	ne	516	1,322	ne	621	ne	na	6,760	1,106	495
2007new[a]	31,281	985	19,109	30	456	1,250	8	624	244	285	6,719	1,088	483

TABLE 28. Postdoctoral appointees in science in all institutions, by science field: 1979–2010

Year	Total	Agricultural sciences	Biological sciences	Communi-cation[a]	Computer sciences	Earth, atmospheric, and ocean sciences	Family and consumer sciences/ human sciences[a]	Mathematical sciences	Multidisciplinary/ interdisciplinary studies[a]	Neuroscience[a]	Physical sciences	Psychology	Social sciences
2008	32,741	1,147	19,827	32	493	1,339	19	723	348	343	6,885	1,077	508
2009	34,388	1,083	20,159	38	594	1,424	22	737	459	645	7,447	1,219	561
2010[b]	37,095	1,195	21,537	60	748	1,760	30	756	765	818	7,703	1,077	646

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 29. Postdoctoral appointees in engineering in all institutions, by engineering field: 1979–2010

Year	Total	Aerospace engineering	Agricultural engineering	Architecture[a]	Biomedical engineering	Chemical engineering	Civil engineering[a]	Electrical engineering	Engineering science	Industrial engineering	Mechanical engineering	Metal-lurgical/ materials engineering	Mining engineer-ing	Nuclear engineering	Petroleum engineering	Engineer-ing, nec
1979	1,067	32	29	na	28	192	128	142	74	8	143	209	5	20	6	51
1980	981	20	13	na	25	185	122	123	79	16	137	172	3	22	6	58
1981	1,040	14	12	na	32	173	103	191	87	13	130	194	16	26	2	47
1982	980	25	9	na	28	177	103	178	76	9	130	168	10	18	4	45
1983	1,108	32	5	na	27	199	131	180	71	13	182	204	19	15	1	29
1984	1,203	42	11	na	31	246	146	178	63	21	196	168	18	19	4	60
1985	1,356	51	16	na	46	274	122	183	90	18	207	245	19	31	6	48
1986	1,405	48	17	na	53	298	140	175	67	25	240	250	25	31	1	35
1987	1,446	43	29	na	44	312	174	177	41	26	216	283	26	20	10	45
1988	1,690	48	31	na	47	425	203	187	38	32	218	325	63	17	8	48
1989	1,928	38	39	na	69	477	182	193	74	32	304	323	90	36	9	62
1990	1,950	67	34	na	71	557	168	242	76	6	222	363	19	30	15	80
1991	2,262	77	37	na	59	576	186	346	117	27	326	392	11	29	19	60
1992	2,369	92	39	na	79	544	188	318	71	38	352	450	23	34	12	129
1993	2,446	116	44	na	80	529	181	388	78	63	358	403	19	40	13	134
1994	2,606	100	51	na	135	527	210	411	95	54	388	441	24	39	14	117
1995	2,648	101	51	na	129	576	201	381	101	30	410	490	19	28	9	122
1996	2,677	109	51	na	140	545	230	395	93	30	425	496	10	28	6	119
1997	2,971	125	62	na	154	636	248	508	115	28	440	465	11	33	21	125
1998	2,853	133	56	na	180	613	225	488	110	30	434	404	10	19	14	137
1999	3,196	128	62	na	242	671	299	548	122	27	476	421	6	30	19	145
2000	3,313	111	56	na	220	703	295	525	163	48	480	507	8	40	20	137
2001	3,152	128	58	na	262	574	268	436	162	21	501	479	14	77	17	155
2002	3,566	140	65	na	284	758	342	613	169	43	441	507	10	26	15	153
2003	3,810	141	85	na	388	686	300	646	180	45	543	539	12	49	17	179
2004	3,949	141	79	na	425	689	313	654	180	50	514	567	9	67	14	247
2005	4,166	153	89	na	477	702	384	689	168	51	562	578	8	41	13	251
2006	4,642	165	116	na	591	735	458	721	224	51	644	571	11	85	18	252
2007old[a]	4,908	178	139	na	640	758	419	885	192	73	725	555	4	77	22	241
2007new[a]	4,942	178	139	5	640	790	417	884	183	71	722	564	5	73	22	249

TABLE 29. Postdoctoral appointees in engineering in all institutions, by engineering field: 1979–2010

Year	Total	Aerospace engineering	Agricultural engineering	Architecture[a]	Biomedical engineering	Chemical engineering	Civil engineering[a]	Electrical engineering	Engineering science	Industrial engineering	Mechanical engineering	Metal-lurgical/ materials engineering	Mining engineer-ing	Nuclear engineering	Petroleum engineering	Engineer-ing, nec
2008	5,462	154	135	11	710	880	465	987	214	115	784	605	5	85	28	284
2009	6,416	168	110	22	960	1,084	535	1,025	226	109	948	758	4	90	36	341
2010[b]	6,956	191	119	10	1,036	1,092	570	1,097	243	163	1,009	835	6	107	46	432

na = not applicable; data were not collected at this level of detail.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 30. Female postdoctoral appointees in science, engineering, and health in all institutions, by field: 1979–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine[a]	Other health
1979	3,340	2,524	2,474	50	816	717	99
1980	3,543	2,680	2,615	65	863	760	103
1981	4,080	2,954	2,872	82	1,126	1,014	112
1982	4,371	3,244	3,160	84	1,127	975	152
1983	4,793	3,460	3,371	89	1,333	1,171	162
1984	5,041	3,617	3,533	84	1,424	1,257	167
1985	5,414	3,953	3,852	101	1,461	1,275	186
1986	5,980	4,356	4,224	132	1,624	1,413	211
1987	6,383	4,673	4,524	149	1,710	1,459	251
1988	6,802	4,914	4,742	172	1,888	1,609	279
1989	7,372	5,311	5,133	178	2,061	1,773	288
1990	7,993	5,633	5,427	206	2,360	2,069	291
1991	8,459	5,951	5,713	238	2,508	2,205	303
1992	9,297	6,429	6,178	251	2,868	2,554	314
1993	9,941	6,777	6,495	282	3,164	2,772	392
1994	10,906	7,297	6,963	334	3,609	3,155	454
1995	10,902	7,498	7,177	321	3,404	2,949	455
1996	11,266	7,622	7,307	315	3,644	3,194	450
1997	11,975	7,894	7,548	346	4,081	3,553	528
1998	12,837	8,326	7,943	383	4,511	3,962	549
1999	12,969	8,708	8,239	469	4,261	3,730	531
2000	13,509	8,928	8,455	473	4,581	3,978	603
2001	14,001	9,255	8,769	486	4,746	4,146	600
2002	15,184	10,130	9,527	603	5,054	4,414	640
2003	16,036	10,784	10,181	603	5,252	4,517	735
2004	16,373	10,985	10,281	704	5,388	4,618	770
2005	17,040	11,229	10,499	730	5,811	5,054	757
2006	17,583	11,526	10,703	823	6,057	5,255	802
2007old[b]	17,852	11,482	10,647	835	6,370	5,502	868
2007new[b]	17,898	11,592	10,749	843	6,306	5,370	936
2008	20,221	13,084	11,981	1,103	7,137	6,195	942
2009	21,818	14,157	12,772	1,385	7,661	6,561	1,100
2010[c]	24,166	15,299	13,872	1,427	8,867	7,619	1,248

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 31. Postdoctoral appointees with temporary visas in science, engineering, and health in all institutions, by field: 1979–2010

Year	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine[a]	Other health
1979	6,065	4,994	4,341	653	1,071	897	174
1980	6,506	5,413	4,735	678	1,093	876	217
1981	7,294	5,935	5,227	708	1,359	1,128	231
1982	7,234	5,962	5,305	657	1,272	1,042	230
1983	7,519	6,193	5,499	694	1,326	1,105	221
1984	7,987	6,495	5,731	764	1,492	1,246	246
1985	8,859	7,189	6,276	913	1,670	1,376	294
1986	9,680	7,797	6,852	945	1,883	1,566	317
1987	10,748	8,483	7,534	949	2,265	1,900	365
1988	11,703	9,270	8,168	1,102	2,433	2,040	393
1989	13,069	10,221	8,950	1,271	2,848	2,403	445
1990	14,450	11,134	9,797	1,337	3,316	2,885	431
1991	15,730	12,050	10,443	1,607	3,680	3,265	415
1992	16,947	12,699	11,097	1,602	4,248	3,801	447
1993	17,595	13,030	11,427	1,603	4,565	4,079	486
1994	18,391	13,318	11,730	1,588	5,073	4,538	535
1995	17,784	13,337	11,688	1,649	4,447	3,952	495
1996	18,695	13,639	12,012	1,627	5,056	4,542	514
1997	19,565	14,429	12,547	1,882	5,136	4,577	559
1998	20,376	14,910	13,007	1,903	5,466	4,917	549
1999	21,916	16,255	14,077	2,178	5,661	5,093	568
2000	23,663	17,597	15,353	2,244	6,066	5,460	606
2001	24,932	18,123	15,936	2,187	6,809	6,090	719
2002	25,371	18,413	15,964	2,449	6,958	6,199	759
2003	27,065	20,124	17,447	2,677	6,941	6,111	830
2004	27,084	20,096	17,444	2,652	6,988	6,099	889
2005	27,048	20,378	17,625	2,753	6,670	5,712	958
2006	28,196	20,776	17,672	3,104	7,420	6,492	928
2007old[b]	28,690	20,991	17,674	3,317	7,699	6,654	1,045
2007new[b]	28,737	21,116	17,768	3,348	7,621	6,494	1,127
2008	29,249	21,929	18,366	3,563	7,320	6,255	1,065
2009	30,700	22,629	18,588	4,041	8,071	6,876	1,195
2010[c]	33,646	23,632	19,334	4,298	10,014	8,652	1,362

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[c] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 32. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
All surveyed fields	47,240	48,555	49,343	50,712	50,840	54,164	57,805	63,415
Science and engineering	34,065	34,456	34,887	35,894	36,223	38,203	40,804	44,051
Science	30,116	30,290	30,245	30,986	31,281	32,741	34,388	37,095
Agricultural sciences	959	1,007	927	948	985	1,147	1,083	1,195
Biological sciences	18,716	18,747	18,807	19,218	19,109	19,827	20,159	21,537
Anatomy	477	417	377	364	341	350	371	437
Biochemistry	2,526	2,553	2,416	2,365	2,305	2,314	2,351	2,533
Biology	1,962	2,011	2,319	2,438	2,341	2,506	2,430	2,555
Biometry/epidemiology	238	259	300	337	349	330	395	466
Biophysics	218	191	224	187	186	165	180	240
Botany	571	590	636	612	610	625	640	603
Cell biology	2,333	2,445	2,407	2,387	2,429	2,382	2,638	2,796
Ecology	170	187	192	208	200	221	233	238
Entomology/parasitology	289	281	241	246	246	222	248	233
Genetics	941	1,031	851	934	940	989	1,054	1,389
Microbiology/immunology/virology	2,151	2,258	2,150	2,340	2,258	2,204	2,265	2,374
Nutrition	280	306	259	324	298	243	214	219
Pathology	1,827	1,400	1,587	1,573	1,576	1,791	1,791	1,797
Pharmacology	1,530	1,514	1,436	1,345	1,349	1,411	1,523	1,656
Physiology	1,279	1,296	1,261	1,188	1,319	1,329	1,427	1,448
Zoology	100	134	103	103	101	68	78	76
Biological sciences, nec	1,824	1,874	2,048	2,267	2,261	2,677	2,321	2,477
Communication[a]	ne	ne	ne	ne	30	32	38	60
Computer sciences	384	406	467	516	456	493	594	748
Earth, atmospheric, and ocean sciences	1,263	1,364	1,495	1,322	1,250	1,339	1,424	1,760
Atmospheric sciences	128	123	128	117	119	116	124	184
Geosciences	507	521	542	511	515	540	536	601
Oceanography	300	347	346	337	337	330	410	332
Earth/atmospheric/ocean sciences, nec	328	373	479	357	279	353	354	643
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	8	19	22	30
Mathematical sciences	468	500	579	621	624	723	737	756
Mathematics/applied mathematics	420	443	512	579	571	643	675	680
Statistics	48	57	67	42	53	80	62	76
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	244	348	459	765
Neuroscience[a]	na	na	na	na	285	343	645	818
Physical sciences	7,059	7,011	6,703	6,760	6,719	6,885	7,447	7,703
Astronomy	367	388	360	400	401	432	507	532
Chemistry	4,338	4,216	4,045	3,997	3,952	3,943	4,219	4,241
Physics	2,138	2,208	2,130	2,203	2,206	2,327	2,517	2,628
Physical sciences, nec	216	199	168	160	160	183	204	302
Psychology	902	884	873	1,106	1,088	1,077	1,219	1,077
Clinical psychology	67	64	62	72	72	65	130	123
Psychology, general	598	579	537	698	686	732	755	634
Psychology, nec	237	241	274	336	330	280	334	320
Social sciences	365	371	394	495	483	508	561	646
Agricultural economics	34	40	36	48	44	45	43	44
Anthropology (cultural/social)	54	65	61	80	80	88	77	83
Economics (except agricultural)	20	13	16	33	37	35	65	47
Geography	31	42	63	40	40	40	58	62
History and philosophy of science	6	9	8	13	9	9	9	13
Linguistics	29	24	25	26	20	21	14	27
Political science	44	42	62	44	44	55	77	85

TABLE 32. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Sociology	64	53	37	60	53	42	59	81
Sociology/anthropology	13	10	6	1	1	2	3	0
Social sciences, nec	70	73	80	150	155	171	156	204
Engineering	3,949	4,166	4,642	4,908	4,942	5,462	6,416	6,956
Aerospace engineering	141	153	165	178	178	154	168	191
Agricultural engineering	79	89	116	139	139	135	110	119
Architecture[a]	na	na	na	na	5	11	22	10
Biomedical engineering	425	477	591	640	640	710	960	1,036
Chemical engineering	689	702	735	758	790	880	1,084	1,092
Civil engineering[a]	313	384	458	419	417	465	535	570
Electrical engineering	654	689	721	885	884	987	1,025	1,097
Engineering science	180	168	224	192	183	214	226	243
Industrial engineering	50	51	51	73	71	115	109	163
Mechanical engineering	514	562	644	725	722	784	948	1,009
Metallurgical/materials engineering	567	578	571	555	564	605	758	835
Mining engineering	9	8	11	4	5	5	4	6
Nuclear engineering	67	41	85	77	73	85	90	107
Petroleum engineering	14	13	18	22	22	28	36	46
Engineering, nec	247	251	252	241	249	284	341	432
Health	13,175	14,099	14,456	14,818	14,617	15,961	17,001	19,364
Clinical medicine	11,477	12,323	12,584	12,805	12,472	13,837	14,601	16,610
Anesthesiology	274	301	335	334	334	395	435	477
Cardiology	364	403	420	394	432	515	532	700
Endocrinology	262	270	287	299	313	334	475	457
Gastroenterology	235	230	247	245	245	236	269	320
Hematology	278	235	243	293	293	344	429	352
Neurology[a]	1,445	1,481	1,565	1,614	1,304	1,363	1,418	1,328
Obstetrics/gynecology	358	347	334	182	182	228	279	333
Oncology/cancer research	876	977	1,156	1,432	1,508	1,571	1,681	1,903
Ophthalmology	384	372	340	375	371	466	462	523
Otorhinolaryngology	146	149	155	125	125	137	137	140
Pediatrics	905	980	937	901	901	985	1,003	1,209
Preventive medicine/community health	291	287	276	342	351	379	395	580
Psychiatry	811	855	812	855	791	888	918	1,066
Pulmonary disease	170	154	136	198	198	237	251	287
Radiology	609	630	837	885	841	845	977	1,034
Surgery	1,142	1,189	1,135	1,243	1,209	1,249	1,342	1,257
Clinical medicine, nec	2,927	3,463	3,369	3,088	3,074	3,665	3,598	4,644
Other health	1,698	1,776	1,872	2,013	2,145	2,124	2,400	2,754
Dental sciences	143	169	192	206	272	270	291	358
Nursing	78	58	61	65	65	92	70	55
Pharmaceutical sciences	723	742	718	756	798	809	977	1,102

TABLE 32. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Speech pathology/audiology	38	40	52	84	84	59	58	54
Veterinary sciences	383	432	452	420	498	486	470	464
Other health, nec	333	335	397	482	428	408	534	721

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 33. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
All surveyed fields	16,373	17,040	17,583	17,852	17,898	20,221	21,818	24,166
Science and engineering	10,985	11,229	11,526	11,482	11,592	13,084	14,157	15,299
Science	10,281	10,499	10,703	10,647	10,749	11,981	12,772	13,872
Agricultural sciences	326	336	311	314	328	426	398	447
Biological sciences	7,395	7,559	7,690	7,653	7,598	8,358	8,640	9,352
Anatomy	212	184	167	162	149	147	169	197
Biochemistry	928	923	914	835	819	860	923	997
Biology	741	773	909	887	838	1,023	1,018	1,068
Biometry/epidemiology	127	136	145	170	175	155	193	234
Biophysics	74	64	69	61	56	45	51	73
Botany	210	236	242	189	189	252	261	210
Cell biology	900	966	947	858	887	1,014	1,142	1,137
Ecology	57	72	75	79	75	96	96	106
Entomology/parasitology	85	85	64	83	83	75	90	94
Genetics	388	437	356	390	392	408	430	611
Microbiology/immunology/virology	865	965	901	1,017	979	974	993	1,090
Nutrition	127	145	134	170	160	142	128	123
Pathology	703	577	686	705	708	778	838	851
Pharmacology	616	590	592	565	566	614	659	757
Physiology	505	517	522	460	499	540	588	640
Zoology	40	54	37	45	42	36	32	28
Biological sciences, nec	817	835	930	977	981	1,199	1,029	1,136
Communication[a]	ne	ne	ne	ne	16	14	15	22
Computer sciences	79	71	88	96	79	85	100	126
Earth, atmospheric, and ocean sciences	365	404	445	389	382	468	487	602
Atmospheric sciences	30	33	33	28	28	26	34	51
Geosciences	138	146	154	148	151	186	165	185
Oceanography	110	118	115	129	129	147	161	160
Earth/atmospheric/ocean sciences, nec	87	107	143	84	74	109	127	206
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	4	13	14	23
Mathematical sciences	106	108	125	104	104	146	170	169
Mathematics/applied mathematics	93	90	107	94	93	122	152	155
Statistics	13	18	18	10	11	24	18	14
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	63	124	166	259
Neuroscience[a]	na	na	na	na	109	157	250	374
Physical sciences	1,387	1,417	1,403	1,358	1,345	1,443	1,669	1,611
Astronomy	69	79	81	81	81	112	143	133
Chemistry	992	988	978	923	908	930	1,089	986
Physics	294	319	314	322	324	366	400	444
Physical sciences, nec	32	31	30	32	32	35	37	48
Psychology	458	433	460	526	519	505	610	585
Clinical psychology	45	41	48	58	58	49	102	95
Psychology, general	299	262	263	286	281	309	336	322
Psychology, nec	114	130	149	182	180	147	172	168
Social sciences	165	171	181	207	202	242	253	302
Agricultural economics	7	10	11	15	13	16	16	11
Anthropology (cultural/social)	18	34	36	30	30	48	47	44
Economics (except agricultural)	8	3	2	13	15	8	18	12
Geography	11	10	18	10	10	16	23	23
History and philosophy of science	3	2	4	5	4	5	5	7
Linguistics	12	14	14	19	16	13	4	10
Political science	25	20	25	24	24	33	35	41

TABLE 33. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Sociology	44	39	26	36	30	25	34	48
Sociology/anthropology	5	3	3	0	0	2	1	0
Social sciences, nec	32	36	42	55	60	76	70	106
Engineering	704	730	823	835	843	1,103	1,385	1,427
Aerospace engineering	16	24	26	19	19	19	24	25
Agricultural engineering	14	20	20	32	32	32	30	38
Architecture[a]	na	na	na	na	2	4	11	5
Biomedical engineering	128	135	169	163	163	217	324	298
Chemical engineering	143	135	138	136	141	186	234	234
Civil engineering[a]	81	79	100	81	78	118	125	144
Electrical engineering	86	89	75	105	104	139	158	158
Engineering science	30	22	28	34	34	41	54	45
Industrial engineering	12	9	15	18	17	45	28	37
Mechanical engineering	59	60	68	78	78	106	141	151
Metallurgical/materials engineering	90	106	109	112	121	132	147	166
Mining engineering	0	1	3	0	1	1	0	0
Nuclear engineering	10	8	16	14	11	15	15	13
Petroleum engineering	1	2	5	6	6	6	7	14
Engineering, nec	34	40	51	37	36	42	87	99
Health	5,388	5,811	6,057	6,370	6,306	7,137	7,661	8,867
Clinical medicine	4,618	5,054	5,255	5,502	5,370	6,195	6,561	7,619
Anesthesiology	89	108	136	134	134	142	166	194
Cardiology	96	112	123	130	138	173	198	271
Endocrinology	120	127	138	147	152	170	233	228
Gastroenterology	86	85	98	103	103	101	107	115
Hematology	126	109	95	124	124	147	173	144
Neurology[a]	576	631	652	688	565	613	653	636
Obstetrics/gynecology	113	118	112	101	101	131	158	181
Oncology/cancer research	364	412	504	626	661	728	758	864
Ophthalmology	165	156	149	176	176	215	222	228
Otorhinolaryngology	52	55	59	57	57	55	61	56
Pediatrics	438	473	438	436	436	513	529	671
Preventive medicine/community health	160	146	139	174	180	229	245	345
Psychiatry	445	427	444	478	453	532	552	673
Pulmonary disease	64	60	48	72	72	91	97	121
Radiology	198	202	282	312	295	299	340	352
Surgery	327	370	366	361	351	385	441	432
Clinical medicine, nec	1,199	1,463	1,472	1,383	1,372	1,671	1,628	2,108
Other health	770	757	802	868	936	942	1,100	1,248
Dental sciences	71	74	77	87	115	116	140	174
Nursing	75	51	56	52	52	69	58	49
Pharmaceutical sciences	261	241	229	261	280	289	353	408

TABLE 33. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Speech pathology/audiology	22	22	26	48	48	34	39	31
Veterinary sciences	184	218	221	208	250	244	243	236
Other health, nec	157	151	193	212	191	190	267	350

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
All surveyed fields	47,240	48,555	49,343	50,712	50,840	54,164	57,805	63,415
U.S. citizens and permanent residents	20,156	21,507	21,147	22,022	22,103	24,915	27,105	29,769
Hispanic or Latino	na	na	na	na	na	na	na	1,160
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	93
Asian[c]	na	na	na	na	na	na	na	5,174
Black or African American	na	na	na	na	na	na	na	898
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	92
White	na	na	na	na	na	na	na	15,689
More than one race[c]	na	na	na	na	na	na	na	140
Unknown ethnicity/race	na	na	na	na	na	na	na	6,523
Temporary visa holders	27,084	27,048	28,196	28,690	28,737	29,249	30,700	33,646
Science and engineering	34,065	34,456	34,887	35,894	36,223	38,203	40,804	44,051
U.S. citizens and permanent residents	13,969	14,078	14,111	14,903	15,107	16,274	18,175	20,419
Hispanic or Latino	na	na	na	na	na	na	na	763
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	59
Asian[c]	na	na	na	na	na	na	na	3,371
Black or African American	na	na	na	na	na	na	na	529
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	51
White	na	na	na	na	na	na	na	11,084
More than one race[c]	na	na	na	na	na	na	na	79
Unknown ethnicity/race	na	na	na	na	na	na	na	4,483
Temporary visa holders	20,096	20,378	20,776	20,991	21,116	21,929	22,629	23,632
Science	30,116	30,290	30,245	30,986	31,281	32,741	34,388	37,095
U.S. citizens and permanent residents	12,672	12,665	12,573	13,312	13,513	14,375	15,800	17,761
Hispanic or Latino	na	na	na	na	na	na	na	700
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	55
Asian[c]	na	na	na	na	na	na	na	2,784
Black or African American	na	na	na	na	na	na	na	465
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	44
White	na	na	na	na	na	na	na	9,906
More than one race[c]	na	na	na	na	na	na	na	68
Unknown ethnicity/race	na	na	na	na	na	na	na	3,739
Temporary visa holders	17,444	17,625	17,672	17,674	17,768	18,366	18,588	19,334
Agricultural sciences	959	1,007	927	948	985	1,147	1,083	1,195
U.S. citizens and permanent residents	431	433	384	413	422	604	573	611
Hispanic or Latino	na	na	na	na	na	na	na	24
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	4
Asian[c]	na	na	na	na	na	na	na	116
Black or African American	na	na	na	na	na	na	na	22
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	375
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	70
Temporary visa holders	528	574	543	535	563	543	510	584
Biological sciences	18,716	18,747	18,807	19,218	19,109	19,827	20,159	21,537
U.S. citizens and permanent residents	7,808	7,739	7,825	8,176	8,174	8,615	9,148	10,188
Hispanic or Latino	na	na	na	na	na	na	na	444
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	25
Asian[c]	na	na	na	na	na	na	na	1,850
Black or African American	na	na	na	na	na	na	na	298

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	29
White	na	na	na	na	na	na	na	5,426
More than one race[c]	na	na	na	na	na	na	na	42
Unknown ethnicity/race	na	na	na	na	na	na	na	2,074
Temporary visa holders	10,908	11,008	10,982	11,042	10,935	11,212	11,011	11,349
Communication[a]	ne	ne	ne	ne	30	32	38	60
U.S. citizens and permanent residents	ne	ne	ne	ne	17	20	28	37
Hispanic or Latino	na	na	na	na	na	na	na	2
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	1
Black or African American	na	na	na	na	na	na	na	2
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	25
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	7
Temporary visa holders	ne	ne	ne	ne	13	12	10	23
Computer sciences	384	406	467	516	456	493	594	748
U.S. citizens and permanent residents	162	164	168	191	166	195	272	313
Hispanic or Latino	na	na	na	na	na	na	na	8
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	2
Asian[c]	na	na	na	na	na	na	na	50
Black or African American	na	na	na	na	na	na	na	5
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	171
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	77
Temporary visa holders	222	242	299	325	290	298	322	435
Earth, atmospheric, and ocean sciences	1,263	1,364	1,495	1,322	1,250	1,339	1,424	1,760
U.S. citizens and permanent residents	695	739	735	671	612	643	714	951
Hispanic or Latino	na	na	na	na	na	na	na	28
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	6
Asian[c]	na	na	na	na	na	na	na	75
Black or African American	na	na	na	na	na	na	na	9
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	635
More than one race[c]	na	na	na	na	na	na	na	4
Unknown ethnicity/race	na	na	na	na	na	na	na	194
Temporary visa holders	568	625	760	651	638	696	710	809
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	8	19	22	30
U.S. citizens and permanent residents	ne	ne	ne	ne	4	15	15	22
Hispanic or Latino	na	na	na	na	na	na	na	0
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	3
Black or African American	na	na	na	na	na	na	na	2
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	17
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	0
Temporary visa holders	ne	ne	ne	ne	4	4	7	8

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Mathematical sciences	468	500	579	621	624	723	737	756
U.S. citizens and permanent residents	212	263	283	303	303	356	383	391
Hispanic or Latino	na	na	na	na	na	na	na	9
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	1
Asian[c]	na	na	na	na	na	na	na	30
Black or African American	na	na	na	na	na	na	na	3
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	261
More than one race[c]	na	na	na	na	na	na	na	3
Unknown ethnicity/race	na	na	na	na	na	na	na	84
Temporary visa holders	256	237	296	318	321	367	354	365
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	244	348	459	765
U.S. citizens and permanent residents	ne	ne	ne	ne	156	193	237	450
Hispanic or Latino	na	na	na	na	na	na	na	17
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	45
Black or African American	na	na	na	na	na	na	na	6
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	279
More than one race[c]	na	na	na	na	na	na	na	2
Unknown ethnicity/race	na	na	na	na	na	na	na	101
Temporary visa holders	ne	ne	ne	ne	88	155	222	315
Neuroscience[a]	na	na	na	na	285	343	645	818
U.S. citizens and permanent residents	na	na	na	na	123	140	339	390
Hispanic or Latino	na	na	na	na	na	na	na	12
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	3
Asian[c]	na	na	na	na	na	na	na	61
Black or African American	na	na	na	na	na	na	na	12
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	1
White	na	na	na	na	na	na	na	218
More than one race[c]	na	na	na	na	na	na	na	3
Unknown ethnicity/race	na	na	na	na	na	na	na	80
Temporary visa holders	na	na	na	na	162	203	306	428
Physical sciences	7,059	7,011	6,703	6,760	6,719	6,885	7,447	7,703
U.S. citizens and permanent residents	2,491	2,484	2,337	2,478	2,470	2,512	2,834	3,198
Hispanic or Latino	na	na	na	na	na	na	na	92
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	11
Asian[c]	na	na	na	na	na	na	na	468
Black or African American	na	na	na	na	na	na	na	53
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	12
White	na	na	na	na	na	na	na	1,723
More than one race[c]	na	na	na	na	na	na	na	7
Unknown ethnicity/race	na	na	na	na	na	na	na	832
Temporary visa holders	4,568	4,527	4,366	4,282	4,249	4,373	4,613	4,505
Psychology[b]	902	884	873	1,106	1,088	1,077	1,219	1,077
U.S. citizens and permanent residents	626	585	603	740	733	753	892	765
Hispanic or Latino	na	na	na	na	na	na	na	37
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	1
Asian[c]	na	na	na	na	na	na	na	46
Black or African American	na	na	na	na	na	na	na	24

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	2
White	na	na	na	na	na	na	na	501
More than one race[c]	na	na	na	na	na	na	na	4
Unknown ethnicity/race	na	na	na	na	na	na	na	150
Temporary visa holders	276	299	270	366	355	324	327	312
Social sciences	365	371	394	495	483	508	561	646
U.S. citizens and permanent residents	247	258	238	340	333	329	365	445
Hispanic or Latino	na	na	na	na	na	na	na	27
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	2
Asian[c]	na	na	na	na	na	na	na	39
Black or African American	na	na	na	na	na	na	na	29
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	275
More than one race[c]	na	na	na	na	na	na	na	3
Unknown ethnicity/race	na	na	na	na	na	na	na	70
Temporary visa holders	118	113	156	155	150	179	196	201
Engineering	3,949	4,166	4,642	4,908	4,942	5,462	6,416	6,956
U.S. citizens and permanent residents	1,297	1,413	1,538	1,591	1,594	1,899	2,375	2,658
Hispanic or Latino	na	na	na	na	na	na	na	63
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	4
Asian[c]	na	na	na	na	na	na	na	587
Black or African American	na	na	na	na	na	na	na	64
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	7
White	na	na	na	na	na	na	na	1,178
More than one race[c]	na	na	na	na	na	na	na	11
Unknown ethnicity/race	na	na	na	na	na	na	na	744
Temporary visa holders	2,652	2,753	3,104	3,317	3,348	3,563	4,041	4,298
Aerospace engineering	141	153	165	178	178	154	168	191
U.S. citizens and permanent residents	46	56	48	59	59	56	69	69
Hispanic or Latino	na	na	na	na	na	na	na	2
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	15
Black or African American	na	na	na	na	na	na	na	1
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	30
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	21
Temporary visa holders	95	97	117	119	119	98	99	122
Agricultural engineering	79	89	116	139	139	135	110	119
U.S. citizens and permanent residents	25	22	34	26	26	38	32	37
Hispanic or Latino	na	na	na	na	na	na	na	4
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	17
Black or African American	na	na	na	na	na	na	na	3
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	13
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	0
Temporary visa holders	54	67	82	113	113	97	78	82

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Architecture[a]	na	na	na	na	5	11	22	10
U.S. citizens and permanent residents	na	na	na	na	1	4	13	5
Hispanic or Latino	na	na	na	na	na	na	na	0
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	0
Black or African American	na	na	na	na	na	na	na	1
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	2
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	2
Temporary visa holders	na	na	na	na	4	7	9	5
Biomedical engineering	425	477	591	640	640	710	960	1,036
U.S. citizens and permanent residents	206	227	230	289	289	315	451	499
Hispanic or Latino	na	na	na	na	na	na	na	12
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	1
Asian[c]	na	na	na	na	na	na	na	107
Black or African American	na	na	na	na	na	na	na	24
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	1
White	na	na	na	na	na	na	na	181
More than one race[c]	na	na	na	na	na	na	na	1
Unknown ethnicity/race	na	na	na	na	na	na	na	172
Temporary visa holders	219	250	361	351	351	395	509	537
Chemical engineering	689	702	735	758	790	880	1,084	1,092
U.S. citizens and permanent residents	227	246	216	265	272	299	408	454
Hispanic or Latino	na	na	na	na	na	na	na	12
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	91
Black or African American	na	na	na	na	na	na	na	6
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	2
White	na	na	na	na	na	na	na	186
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	157
Temporary visa holders	462	456	519	493	518	581	676	638
Civil engineering[a]	313	384	458	419	417	465	535	570
U.S. citizens and permanent residents	105	139	203	164	159	171	212	244
Hispanic or Latino	na	na	na	na	na	na	na	8
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	2
Asian[c]	na	na	na	na	na	na	na	45
Black or African American	na	na	na	na	na	na	na	3
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	114
More than one race[c]	na	na	na	na	na	na	na	2
Unknown ethnicity/race	na	na	na	na	na	na	na	70
Temporary visa holders	208	245	255	255	258	294	323	326
Electrical engineering	654	689	721	885	884	987	1,025	1,097
U.S. citizens and permanent residents	191	248	233	246	247	375	323	324
Hispanic or Latino	na	na	na	na	na	na	na	4
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	1
Asian[c]	na	na	na	na	na	na	na	90
Black or African American	na	na	na	na	na	na	na	8

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	2
White	na	na	na	na	na	na	na	147
More than one race[c]	na	na	na	na	na	na	na	1
Unknown ethnicity/race	na	na	na	na	na	na	na	71
Temporary visa holders	463	441	488	639	637	612	702	773
Engineering science	180	168	224	192	183	214	226	243
U.S. citizens and permanent residents	56	53	82	59	55	101	112	94
Hispanic or Latino	na	na	na	na	na	na	na	3
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	20
Black or African American	na	na	na	na	na	na	na	2
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	65
More than one race[c]	na	na	na	na	na	na	na	1
Unknown ethnicity/race	na	na	na	na	na	na	na	3
Temporary visa holders	124	115	142	133	128	113	114	149
Industrial engineering	50	51	51	73	71	115	109	163
U.S. citizens and permanent residents	16	16	17	23	19	36	50	78
Hispanic or Latino	na	na	na	na	na	na	na	1
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	9
Black or African American	na	na	na	na	na	na	na	4
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	43
More than one race[c]	na	na	na	na	na	na	na	1
Unknown ethnicity/race	na	na	na	na	na	na	na	20
Temporary visa holders	34	35	34	50	52	79	59	85
Mechanical engineering	514	562	644	725	722	784	948	1,009
U.S. citizens and permanent residents	158	150	174	199	198	224	281	362
Hispanic or Latino	na	na	na	na	na	na	na	7
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	92
Black or African American	na	na	na	na	na	na	na	4
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	157
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	102
Temporary visa holders	356	412	470	526	524	560	667	647
Metallurgical/materials engineering	567	578	571	555	564	605	758	835
U.S. citizens and permanent residents	166	160	180	136	141	147	243	285
Hispanic or Latino	na	na	na	na	na	na	na	5
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	66
Black or African American	na	na	na	na	na	na	na	3
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	2
White	na	na	na	na	na	na	na	137
More than one race[c]	na	na	na	na	na	na	na	4
Unknown ethnicity/race	na	na	na	na	na	na	na	68
Temporary visa holders	401	418	391	419	423	458	515	550

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Mining engineering	9	8	11	4	5	5	4	6
U.S. citizens and permanent residents	3	3	5	2	2	1	1	1
Hispanic or Latino	na	na	na	na	na	na	na	0
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	0
Black or African American	na	na	na	na	na	na	na	0
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	1
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	0
Temporary visa holders	6	5	6	2	3	4	3	5
Nuclear engineering	67	41	85	77	73	85	90	107
U.S. citizens and permanent residents	25	13	27	26	25	31	35	55
Hispanic or Latino	na	na	na	na	na	na	na	0
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	6
Black or African American	na	na	na	na	na	na	na	1
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	30
More than one race[c]	na	na	na	na	na	na	na	1
Unknown ethnicity/race	na	na	na	na	na	na	na	17
Temporary visa holders	42	28	58	51	48	54	55	52
Petroleum engineering	14	13	18	22	22	28	36	46
U.S. citizens and permanent residents	3	3	3	7	7	5	12	12
Hispanic or Latino	na	na	na	na	na	na	na	1
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	4
Black or African American	na	na	na	na	na	na	na	0
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	4
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	3
Temporary visa holders	11	10	15	15	15	23	24	34
Engineering, nec	247	251	252	241	249	284	341	432
U.S. citizens and permanent residents	70	77	86	90	94	96	133	139
Hispanic or Latino	na	na	na	na	na	na	na	4
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	0
Asian[c]	na	na	na	na	na	na	na	25
Black or African American	na	na	na	na	na	na	na	4
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	0
White	na	na	na	na	na	na	na	68
More than one race[c]	na	na	na	na	na	na	na	0
Unknown ethnicity/race	na	na	na	na	na	na	na	38
Temporary visa holders	177	174	166	151	155	188	208	293
Health[a]	13,175	14,099	14,456	14,818	14,617	15,961	17,001	19,364
U.S. citizens and permanent residents	6,187	7,429	7,036	7,119	6,996	8,641	8,930	9,350
Hispanic or Latino	na	na	na	na	na	na	na	397
Not Hispanic or Latino								
American Indian or Alaska Native	na	na	na	na	na	na	na	34
Asian[c]	na	na	na	na	na	na	na	1,803
Black or African American	na	na	na	na	na	na	na	369

TABLE 34. Postdoctoral appointees in science, engineering, and health in all institutions, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2004–10

Field, citizenship, ethnicity, and race	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Native Hawaiian or Other Pacific Islander[c]	na	na	na	na	na	na	na	41
White	na	na	na	na	na	na	na	4,605
More than one race[c]	na	na	na	na	na	na	na	61
Unknown ethnicity/race	na	na	na	na	na	na	na	2,040
Temporary visa holders	6,988	6,670	7,420	7,699	7,621	7,320	8,071	10,014

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field in prior years.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. Science fields "communication" and "family and consumer science/human science" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

[c] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 35. Postdoctoral appointees in science, engineering, and health in public institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
All surveyed fields	26,482	27,218	27,719	28,069	28,187	29,686	32,467	35,279
Science and engineering	20,571	20,917	21,355	21,539	21,687	22,866	24,622	26,180
Science	18,206	18,311	18,476	18,538	18,653	19,402	20,533	21,893
Agricultural sciences	894	920	857	886	923	1,097	1,033	1,141
Biological sciences	10,404	10,428	10,541	10,677	10,600	10,844	11,270	11,632
Anatomy	329	283	257	244	220	231	230	290
Biochemistry	1,473	1,466	1,468	1,393	1,386	1,310	1,418	1,484
Biology	997	998	1,203	1,136	1,119	1,217	1,209	1,276
Biometry/epidemiology	119	139	179	184	193	161	197	227
Biophysics	62	44	75	49	49	37	57	41
Botany	559	574	627	601	599	611	625	589
Cell biology	1,023	1,064	1,061	1,107	1,124	1,151	1,363	1,390
Ecology	126	145	145	157	149	158	157	156
Entomology/parasitology	274	268	232	235	235	210	242	223
Genetics	404	373	378	349	346	344	385	442
Microbiology/immunology/virology	1,179	1,188	1,180	1,179	1,143	1,111	1,161	1,284
Nutrition	228	253	222	294	268	224	200	193
Pathology	585	601	538	507	498	587	674	708
Pharmacology	957	930	905	874	874	895	988	1,009
Physiology	782	793	796	734	792	770	842	830
Zoology	100	132	103	103	101	68	78	76
Biological sciences, nec	1,207	1,177	1,172	1,531	1,504	1,759	1,444	1,414
Communication[a]	ne	ne	ne	ne	14	9	11	27
Computer sciences	229	256	290	294	247	266	319	426
Earth, atmospheric, and ocean sciences	940	1,045	1,164	993	921	953	1,004	1,326
Atmospheric sciences	128	119	124	109	111	105	116	173
Geosciences	273	290	310	300	304	294	271	324
Oceanography	225	280	264	243	243	224	296	267
Earth/atmospheric/ocean sciences, nec	314	356	466	341	263	330	321	562
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	8	19	20	24
Mathematical sciences	297	283	369	423	418	450	446	434
Mathematics/applied mathematics	270	262	329	398	391	410	418	392
Statistics	27	21	40	25	27	40	28	42
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	208	308	393	627
Neuroscience[a]	na	na	na	na	92	97	277	337
Physical sciences	4,742	4,684	4,502	4,383	4,341	4,453	4,856	4,998
Astronomy	227	217	220	241	241	243	289	287
Chemistry	2,894	2,828	2,725	2,608	2,563	2,552	2,802	2,743
Physics	1,455	1,491	1,433	1,412	1,415	1,519	1,622	1,787
Physical sciences, nec	166	148	124	122	122	139	143	181
Psychology	480	474	513	583	582	586	584	567
Clinical psychology	38	46	35	46	46	42	52	52
Psychology, general	316	291	328	338	331	376	333	320
Psychology, nec	126	137	150	199	205	168	199	195
Social sciences	220	221	240	299	299	320	320	354
Agricultural economics	34	39	32	46	42	44	41	41
Anthropology (cultural/social)	27	39	40	53	53	63	57	56
Economics (except agricultural)	16	6	8	19	23	22	22	18
Geography	23	37	51	34	34	36	50	53
History and philosophy of science	0	5	2	3	3	2	3	4
Linguistics	10	7	7	12	12	13	8	13
Political science	29	20	26	22	22	23	31	29

TABLE 35. Postdoctoral appointees in science, engineering, and health in public institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Sociology	32	27	23	18	18	13	26	45
Sociology/anthropology	2	2	5	0	0	1	0	0
Social sciences, nec	47	39	46	92	92	103	82	95
Engineering	2,365	2,606	2,879	3,001	3,034	3,464	4,089	4,287
Aerospace engineering	87	102	117	111	111	96	114	118
Agricultural engineering	76	80	108	128	128	128	110	110
Architecture[a]	na	na	na	na	2	7	18	7
Biomedical engineering	211	231	260	273	273	306	438	475
Chemical engineering	454	479	498	502	534	602	744	719
Civil engineering[a]	179	241	319	278	279	322	382	391
Electrical engineering	401	459	490	570	569	692	708	727
Engineering science	45	22	51	31	22	69	74	61
Industrial engineering	45	41	43	50	45	90	83	113
Mechanical engineering	295	350	386	466	463	493	586	617
Metallurgical/materials engineering	383	402	386	359	368	394	500	567
Mining engineering	9	8	11	4	5	5	4	6
Nuclear engineering	43	32	45	47	43	51	60	66
Petroleum engineering	4	7	12	13	13	15	23	27
Engineering, nec	133	152	153	169	179	194	245	283
Health	5,911	6,301	6,364	6,530	6,500	6,820	7,845	9,099
Clinical medicine	4,466	4,757	4,795	4,873	4,746	5,041	5,812	6,751
Anesthesiology	96	112	110	143	143	139	161	150
Cardiology	89	132	132	118	118	171	185	311
Endocrinology	138	131	157	136	136	145	163	160
Gastroenterology	108	98	119	73	73	90	116	150
Hematology	175	165	177	150	150	192	241	173
Neurology[a]	425	521	509	490	387	393	514	467
Obstetrics/gynecology	92	91	113	97	97	114	142	163
Oncology/cancer research	539	605	558	657	670	590	691	851
Ophthalmology	126	114	124	116	112	162	175	186
Otorhinolaryngology	60	61	77	65	65	70	69	75
Pediatrics	403	414	399	429	429	427	441	505
Preventive medicine/community health	168	169	180	216	219	239	264	414
Psychiatry	331	341	346	333	307	329	386	441
Pulmonary disease	72	74	85	104	104	113	110	148
Radiology	138	152	181	208	208	220	299	313
Surgery	416	437	465	448	435	473	554	612
Clinical medicine, nec	1,090	1,140	1,063	1,090	1,093	1,174	1,301	1,632
Other health	1,445	1,544	1,569	1,657	1,754	1,779	2,033	2,348
Dental sciences	131	142	149	153	187	179	189	261
Nursing	56	45	45	52	52	66	50	47
Pharmaceutical sciences	712	722	713	731	773	779	931	1,062

TABLE 35. Postdoctoral appointees in science, engineering, and health in public institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Speech pathology/audiology	30	32	45	53	53	44	41	39
Veterinary sciences	305	370	368	319	379	414	427	399
Other health, nec	211	233	249	349	310	297	395	540

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 36. Postdoctoral appointees in science, engineering, and health in private institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
All surveyed fields	20,758	21,337	21,624	22,643	22,653	24,478	25,338	28,136
Science and engineering	13,494	13,539	13,532	14,355	14,536	15,337	16,182	17,871
Science	11,910	11,979	11,769	12,448	12,628	13,339	13,855	15,202
Agricultural sciences	65	87	70	62	62	50	50	54
Biological sciences	8,312	8,319	8,266	8,541	8,509	8,983	8,889	9,905
Anatomy	148	134	120	120	121	119	141	147
Biochemistry	1,053	1,087	948	972	919	1,004	933	1,049
Biology	965	1,013	1,116	1,302	1,222	1,289	1,221	1,279
Biometry/epidemiology	119	120	121	153	156	169	198	239
Biophysics	156	147	149	138	137	128	123	199
Botany	12	16	9	11	11	14	15	14
Cell biology	1,310	1,381	1,346	1,280	1,305	1,231	1,275	1,406
Ecology	44	42	47	51	51	63	76	82
Entomology/parasitology	15	13	9	11	11	12	6	10
Genetics	537	658	473	585	594	645	669	947
Microbiology/immunology/virology	972	1,070	970	1,161	1,115	1,093	1,104	1,090
Nutrition	52	53	37	30	30	19	14	26
Pathology	1,242	799	1,049	1,066	1,078	1,204	1,117	1,089
Pharmacology	573	584	531	471	475	516	535	647
Physiology	497	503	465	454	527	559	585	618
Zoology	0	2	0	0	0	0	0	0
Biological sciences, nec	617	697	876	736	757	918	877	1,063
Communication[a]	ne	ne	ne	ne	16	23	27	33
Computer sciences	155	150	177	222	209	227	275	322
Earth, atmospheric, and ocean sciences	323	319	331	329	329	386	420	434
Atmospheric sciences	0	4	4	8	8	11	8	11
Geosciences	234	231	232	211	211	246	265	277
Oceanography	75	67	82	94	94	106	114	65
Earth/atmospheric/ocean sciences, nec	14	17	13	16	16	23	33	81
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	0	0	2	6
Mathematical sciences	171	217	210	198	206	273	291	322
Mathematics/applied mathematics	150	181	183	181	180	233	257	288
Statistics	21	36	27	17	26	40	34	34
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	36	40	66	138
Neuroscience[a]	na	na	na	na	193	246	368	481
Physical sciences	2,317	2,327	2,201	2,377	2,378	2,432	2,591	2,705
Astronomy	140	171	140	159	160	189	218	245
Chemistry	1,444	1,388	1,320	1,389	1,389	1,391	1,417	1,498
Physics	683	717	697	791	791	808	895	841
Physical sciences, nec	50	51	44	38	38	44	61	121
Psychology	422	410	360	523	506	491	635	510
Clinical psychology	29	18	27	26	26	23	78	71
Psychology, general	282	288	209	360	355	356	422	314
Psychology, nec	111	104	124	137	125	112	135	125
Social sciences	145	150	154	196	184	188	241	292
Agricultural economics	0	1	4	2	2	1	2	3
Anthropology (cultural/social)	27	26	21	27	27	25	20	27
Economics (except agricultural)	4	7	8	14	14	13	43	29
Geography	8	5	12	6	6	4	8	9
History and philosophy of science	6	4	6	10	6	7	6	9
Linguistics	19	17	18	14	8	8	6	14
Political science	15	22	36	22	22	32	46	56

TABLE 36. Postdoctoral appointees in science, engineering, and health in private institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Sociology	32	26	14	42	35	29	33	36
Sociology/anthropology	11	8	1	1	1	1	3	0
Social sciences, nec	23	34	34	58	63	68	74	109
Engineering	1,584	1,560	1,763	1,907	1,908	1,998	2,327	2,669
Aerospace engineering	54	51	48	67	67	58	54	73
Agricultural engineering	3	9	8	11	11	7	0	9
Architecture[a]	na	na	na	na	3	4	4	3
Biomedical engineering	214	246	331	367	367	404	522	561
Chemical engineering	235	223	237	256	256	278	340	373
Civil engineering[a]	134	143	139	141	138	143	153	179
Electrical engineering	253	230	231	315	315	295	317	370
Engineering science	135	146	173	161	161	145	152	182
Industrial engineering	5	10	8	23	26	25	26	50
Mechanical engineering	219	212	258	259	259	291	362	392
Metallurgical/materials engineering	184	176	185	196	196	211	258	268
Mining engineering	0	0	0	0	0	0	0	0
Nuclear engineering	24	9	40	30	30	34	30	41
Petroleum engineering	10	6	6	9	9	13	13	19
Engineering, nec	114	99	99	72	70	90	96	149
Health	7,264	7,798	8,092	8,288	8,117	9,141	9,156	10,265
Clinical medicine	7,011	7,566	7,789	7,932	7,726	8,796	8,789	9,859
Anesthesiology	178	189	225	191	191	256	274	327
Cardiology	275	271	288	276	314	344	347	389
Endocrinology	124	139	130	163	177	189	312	297
Gastroenterology	127	132	128	172	172	146	153	170
Hematology	103	70	66	143	143	152	188	179
Neurology[a]	1,020	960	1,056	1,124	917	970	904	861
Obstetrics/gynecology	266	256	221	85	85	114	137	170
Oncology/cancer research	337	372	598	775	838	981	990	1,052
Ophthalmology	258	258	216	259	259	304	287	337
Otorhinolaryngology	86	88	78	60	60	67	68	65
Pediatrics	502	566	538	472	472	558	562	704
Preventive medicine/community health	123	118	96	126	132	140	131	166
Psychiatry	480	514	466	522	484	559	532	625
Pulmonary disease	98	80	51	94	94	124	141	139
Radiology	471	478	656	677	633	625	678	721
Surgery	726	752	670	795	774	776	788	645
Clinical medicine, nec	1,837	2,323	2,306	1,998	1,981	2,491	2,297	3,012
Other health	253	232	303	356	391	345	367	406
Dental sciences	12	27	43	53	85	91	102	97
Nursing	22	13	16	13	13	26	20	8
Pharmaceutical sciences	11	20	5	25	25	30	46	40

TABLE 36. Postdoctoral appointees in science, engineering, and health in private institutions, by detailed field: 2004–10

Field	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Speech pathology/audiology	8	8	7	31	31	15	17	15
Veterinary sciences	78	62	84	101	119	72	43	65
Other health, nec	122	102	148	133	118	111	139	181

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
All sources	47,240	48,555	49,343	50,712	50,840	54,164	57,805	63,415
Federal	33,653	34,091	33,819	32,538	32,602	32,362	35,533	32,804
DOD	na	na	na	na	na	na	na	2,374
DOE	na	na	na	na	na	na	na	1,913
HHS	na	na	na	na	na	na	na	19,996
NIH	na	na	na	na	na	na	na	19,309
Other HHS	na	na	na	na	na	na	na	687
NASA	na	na	na	na	na	na	na	614
NSF	na	na	na	na	na	na	na	3,907
USDA	na	na	na	na	na	na	na	629
Other	na	na	na	na	na	na	na	2,894
Federal, not reported	na	na	na	na	na	na	na	477
Nonfederal	13,587	14,464	15,524	18,174	18,238	21,802	22,272	17,862
Institutional	na	na	na	na	na	na	na	8,840
Domestic	na	na	na	na	na	na	na	7,302
Foreign	na	na	na	na	na	na	na	1,463
Nonfederal, not reported	na	na	na	na	na	na	na	257
Self-support	na	na	na	na	na	na	na	396
Unknown/not reported	na	na	na	na	na	na	na	12,353
Science and engineering	34,065	34,456	34,887	35,894	36,223	38,203	40,804	44,051
Federal	25,226	24,807	24,639	23,361	23,564	23,411	25,996	24,367
DOD	na	na	na	na	na	na	na	2,034
DOE	na	na	na	na	na	na	na	1,893
HHS	na	na	na	na	na	na	na	12,707
NIH	na	na	na	na	na	na	na	12,270
Other HHS	na	na	na	na	na	na	na	437
NASA	na	na	na	na	na	na	na	593
NSF	na	na	na	na	na	na	na	3,859
USDA	na	na	na	na	na	na	na	592
Other	na	na	na	na	na	na	na	2,232
Federal, not reported	na	na	na	na	na	na	na	457
Nonfederal	8,839	9,649	10,248	12,533	12,659	14,792	14,808	12,040
Institutional	na	na	na	na	na	na	na	5,988
Domestic	na	na	na	na	na	na	na	4,686
Foreign	na	na	na	na	na	na	na	1,125
Nonfederal, not reported	na	na	na	na	na	na	na	241
Self-support	na	na	na	na	na	na	na	263
Unknown/not reported	na	na	na	na	na	na	na	7,381
Science	30,116	30,290	30,245	30,986	31,281	32,741	34,388	37,095
Federal	22,331	21,997	21,605	20,486	20,675	20,441	22,270	20,766
DOD	na	na	na	na	na	na	na	1,197
DOE	na	na	na	na	na	na	na	1,236
HHS	na	na	na	na	na	na	na	11,930
NIH	na	na	na	na	na	na	na	11,542
Other HHS	na	na	na	na	na	na	na	388
NASA	na	na	na	na	na	na	na	495
NSF	na	na	na	na	na	na	na	3,154
USDA	na	na	na	na	na	na	na	556
Other	na	na	na	na	na	na	na	1,741
Federal, not reported	na	na	na	na	na	na	na	457
Nonfederal	7,785	8,293	8,640	10,500	10,606	12,300	12,118	10,019
Institutional	na	na	na	na	na	na	na	5,004
Domestic	na	na	na	na	na	na	na	3,925
Foreign	na	na	na	na	na	na	na	849
Nonfederal, not reported	na	na	na	na	na	na	na	241
Self-support	na	na	na	na	na	na	na	205
Unknown/not reported	na	na	na	na	na	na	na	6,105

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Agricultural sciences	959	1,007	927	948	985	1,147	1,083	1,195
Federal	636	639	608	512	537	507	600	631
DOD	na	na	na	na	na	na	na	15
DOE	na	na	na	na	na	na	na	34
HHS	na	na	na	na	na	na	na	57
NIH	na	na	na	na	na	na	na	49
Other HHS	na	na	na	na	na	na	na	8
NASA	na	na	na	na	na	na	na	1
NSF	na	na	na	na	na	na	na	108
USDA	na	na	na	na	na	na	na	278
Other	na	na	na	na	na	na	na	138
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	323	368	319	436	448	640	483	514
Institutional	na	na	na	na	na	na	na	301
Domestic	na	na	na	na	na	na	na	189
Foreign	na	na	na	na	na	na	na	24
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	17
Unknown/not reported	na	na	na	na	na	na	na	33
Biological sciences	18,716	18,747	18,807	19,218	19,109	19,827	20,159	21,537
Federal	13,827	13,679	13,497	12,904	12,835	12,502	13,124	12,578
DOD	na	na	na	na	na	na	na	415
DOE	na	na	na	na	na	na	na	203
HHS	na	na	na	na	na	na	na	9,562
NIH	na	na	na	na	na	na	na	9,336
Other HHS	na	na	na	na	na	na	na	226
NASA	na	na	na	na	na	na	na	46
NSF	na	na	na	na	na	na	na	900
USDA	na	na	na	na	na	na	na	236
Other	na	na	na	na	na	na	na	759
Federal, not reported	na	na	na	na	na	na	na	457
Nonfederal	4,889	5,068	5,310	6,314	6,274	7,325	7,035	5,386
Institutional	na	na	na	na	na	na	na	2,445
Domestic	na	na	na	na	na	na	na	2,273
Foreign	na	na	na	na	na	na	na	427
Nonfederal, not reported	na	na	na	na	na	na	na	241
Self-support	na	na	na	na	na	na	na	83
Unknown/not reported	na	na	na	na	na	na	na	3,490
Communication[a]	ne	ne	ne	ne	30	32	38	60
Federal	ne	ne	ne	ne	3	3	10	20
DOD	na	na	na	na	na	na	na	6
DOE	na	na	na	na	na	na	na	0
HHS	na	na	na	na	na	na	na	12
NIH	na	na	na	na	na	na	na	11
Other HHS	na	na	na	na	na	na	na	1
NASA	na	na	na	na	na	na	na	0
NSF	na	na	na	na	na	na	na	2
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	0
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	ne	ne	ne	ne	27	29	28	31
Institutional	na	na	na	na	na	na	na	17
Domestic	na	na	na	na	na	na	na	9
Foreign	na	na	na	na	na	na	na	5
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	0
Unknown/not reported	na	na	na	na	na	na	na	9

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Computer sciences	384	406	467	516	456	493	594	748
Federal	273	270	299	307	291	302	392	448
DOD	na	na	na	na	na	na	na	106
DOE	na	na	na	na	na	na	na	24
HHS	na	na	na	na	na	na	na	60
NIH	na	na	na	na	na	na	na	54
Other HHS	na	na	na	na	na	na	na	6
NASA	na	na	na	na	na	na	na	10
NSF	na	na	na	na	na	na	na	195
USDA	na	na	na	na	na	na	na	2
Other	na	na	na	na	na	na	na	51
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	111	136	168	209	165	191	202	204
Institutional	na	na	na	na	na	na	na	90
Domestic	na	na	na	na	na	na	na	90
Foreign	na	na	na	na	na	na	na	24
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	7
Unknown/not reported	na	na	na	na	na	na	na	89
Earth, atmospheric, and ocean sciences	1,263	1,364	1,495	1,322	1,250	1,339	1,424	1,760
Federal	1,029	1,029	1,046	797	768	808	898	806
DOD	na	na	na	na	na	na	na	59
DOE	na	na	na	na	na	na	na	55
HHS	na	na	na	na	na	na	na	22
NIH	na	na	na	na	na	na	na	19
Other HHS	na	na	na	na	na	na	na	3
NASA	na	na	na	na	na	na	na	141
NSF	na	na	na	na	na	na	na	316
USDA	na	na	na	na	na	na	na	14
Other	na	na	na	na	na	na	na	199
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	234	335	449	525	482	531	526	541
Institutional	na	na	na	na	na	na	na	326
Domestic	na	na	na	na	na	na	na	163
Foreign	na	na	na	na	na	na	na	52
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	9
Unknown/not reported	na	na	na	na	na	na	na	404
Family and consumer sciences/human sciences[a]	ne	ne	ne	ne	8	19	22	30
Federal	ne	ne	ne	ne	2	7	8	12
DOD	na	na	na	na	na	na	na	1
DOE	na	na	na	na	na	na	na	0
HHS	na	na	na	na	na	na	na	9
NIH	na	na	na	na	na	na	na	5
Other HHS	na	na	na	na	na	na	na	4
NASA	na	na	na	na	na	na	na	0
NSF	na	na	na	na	na	na	na	1
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	1
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	ne	ne	ne	ne	6	12	14	8
Institutional	na	na	na	na	na	na	na	6
Domestic	na	na	na	na	na	na	na	2
Foreign	na	na	na	na	na	na	na	0
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	0
Unknown/not reported	na	na	na	na	na	na	na	10

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Mathematical sciences	468	500	579	621	624	723	737	756
Federal	286	332	334	303	306	338	364	300
DOD	na	na	na	na	na	na	na	51
DOE	na	na	na	na	na	na	na	17
HHS	na	na	na	na	na	na	na	51
NIH	na	na	na	na	na	na	na	49
Other HHS	na	na	na	na	na	na	na	2
NASA	na	na	na	na	na	na	na	2
NSF	na	na	na	na	na	na	na	162
USDA	na	na	na	na	na	na	na	1
Other	na	na	na	na	na	na	na	16
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	182	168	245	318	318	385	373	319
Institutional	na	na	na	na	na	na	na	253
Domestic	na	na	na	na	na	na	na	51
Foreign	na	na	na	na	na	na	na	15
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	7
Unknown/not reported	na	na	na	na	na	na	na	130
Multidisciplinary/interdisciplinary studies[a]	ne	ne	ne	ne	244	348	459	765
Federal	ne	ne	ne	ne	116	188	265	332
DOD	na	na	na	na	na	na	na	38
DOE	na	na	na	na	na	na	na	46
HHS	na	na	na	na	na	na	na	130
NIH	na	na	na	na	na	na	na	127
Other HHS	na	na	na	na	na	na	na	3
NASA	na	na	na	na	na	na	na	1
NSF	na	na	na	na	na	na	na	62
USDA	na	na	na	na	na	na	na	2
Other	na	na	na	na	na	na	na	53
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	ne	ne	ne	ne	128	160	194	181
Institutional	na	na	na	na	na	na	na	94
Domestic	na	na	na	na	na	na	na	76
Foreign	na	na	na	na	na	na	na	11
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	8
Unknown/not reported	na	na	na	na	na	na	na	244
Neuroscience[a]	ne	ne	ne	ne	285	343	645	818
Federal	ne	ne	ne	ne	192	220	447	465
DOD	na	na	na	na	na	na	na	58
DOE	na	na	na	na	na	na	na	0
HHS	na	na	na	na	na	na	na	365
NIH	na	na	na	na	na	na	na	352
Other HHS	na	na	na	na	na	na	na	13
NASA	na	na	na	na	na	na	na	0
NSF	na	na	na	na	na	na	na	11
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	31
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	ne	ne	ne	ne	93	123	198	197
Institutional	na	na	na	na	na	na	na	59
Domestic	na	na	na	na	na	na	na	115
Foreign	na	na	na	na	na	na	na	23
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	1
Unknown/not reported	na	na	na	na	na	na	na	155

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Physical sciences	7,059	7,011	6,703	6,760	6,719	6,885	7,447	7,703
Federal	5,402	5,197	4,953	4,741	4,719	4,671	5,177	4,348
DOD	na	na	na	na	na	na	na	408
DOE	na	na	na	na	na	na	na	853
HHS	na	na	na	na	na	na	na	1,138
NIH	na	na	na	na	na	na	na	1,060
Other HHS	na	na	na	na	na	na	na	78
NASA	na	na	na	na	na	na	na	282
NSF	na	na	na	na	na	na	na	1,291
USDA	na	na	na	na	na	na	na	10
Other	na	na	na	na	na	na	na	366
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	1,657	1,814	1,750	2,019	2,000	2,214	2,270	2,015
Institutional	na	na	na	na	na	na	na	1,048
Domestic	na	na	na	na	na	na	na	762
Foreign	na	na	na	na	na	na	na	205
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	38
Unknown/not reported	na	na	na	na	na	na	na	1,302
Psychology	902	884	873	1,106	1,088	1,077	1,219	1,077
Federal	710	686	683	749	739	737	830	633
DOD	na	na	na	na	na	na	na	33
DOE	na	na	na	na	na	na	na	0
HHS	na	na	na	na	na	na	na	457
NIH	na	na	na	na	na	na	na	424
Other HHS	na	na	na	na	na	na	na	33
NASA	na	na	na	na	na	na	na	2
NSF	na	na	na	na	na	na	na	58
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	83
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	192	198	190	357	349	340	389	297
Institutional	na	na	na	na	na	na	na	147
Domestic	na	na	na	na	na	na	na	98
Foreign	na	na	na	na	na	na	na	52
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	20
Unknown/not reported	na	na	na	na	na	na	na	127
Social sciences	365	371	394	495	483	508	561	646
Federal	168	165	185	173	167	158	155	193
DOD	na	na	na	na	na	na	na	7
DOE	na	na	na	na	na	na	na	4
HHS	na	na	na	na	na	na	na	67
NIH	na	na	na	na	na	na	na	56
Other HHS	na	na	na	na	na	na	na	11
NASA	na	na	na	na	na	na	na	10
NSF	na	na	na	na	na	na	na	48
USDA	na	na	na	na	na	na	na	13
Other	na	na	na	na	na	na	na	44
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	197	206	209	322	316	350	406	326
Institutional	na	na	na	na	na	na	na	218
Domestic	na	na	na	na	na	na	na	97
Foreign	na	na	na	na	na	na	na	11
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	15
Unknown/not reported	na	na	na	na	na	na	na	112

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Engineering	3,949	4,166	4,642	4,908	4,942	5,462	6,416	6,956
Federal	2,895	2,810	3,034	2,875	2,889	2,970	3,726	3,601
DOD	na	na	na	na	na	na	na	837
DOE	na	na	na	na	na	na	na	657
HHS	na	na	na	na	na	na	na	777
NIH	na	na	na	na	na	na	na	728
Other HHS	na	na	na	na	na	na	na	49
NASA	na	na	na	na	na	na	na	98
NSF	na	na	na	na	na	na	na	705
USDA	na	na	na	na	na	na	na	36
Other	na	na	na	na	na	na	na	491
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	1,054	1,356	1,608	2,033	2,053	2,492	2,690	2,021
Institutional	na	na	na	na	na	na	na	984
Domestic	na	na	na	na	na	na	na	761
Foreign	na	na	na	na	na	na	na	276
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	58
Unknown/not reported	na	na	na	na	na	na	na	1,276
Aerospace engineering	141	153	165	178	178	154	168	191
Federal	114	110	117	98	98	109	107	111
DOD	na	na	na	na	na	na	na	47
DOE	na	na	na	na	na	na	na	13
HHS	na	na	na	na	na	na	na	3
NIH	na	na	na	na	na	na	na	3
Other HHS	na	na	na	na	na	na	na	0
NASA	na	na	na	na	na	na	na	10
NSF	na	na	na	na	na	na	na	10
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	28
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	27	43	48	80	80	45	61	46
Institutional	na	na	na	na	na	na	na	19
Domestic	na	na	na	na	na	na	na	19
Foreign	na	na	na	na	na	na	na	8
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	6
Unknown/not reported	na	na	na	na	na	na	na	28
Agricultural engineering	79	89	116	139	139	135	110	119
Federal	55	60	82	72	72	76	48	66
DOD	na	na	na	na	na	na	na	5
DOE	na	na	na	na	na	na	na	5
HHS	na	na	na	na	na	na	na	9
NIH	na	na	na	na	na	na	na	8
Other HHS	na	na	na	na	na	na	na	1
NASA	na	na	na	na	na	na	na	0
NSF	na	na	na	na	na	na	na	9
USDA	na	na	na	na	na	na	na	24
Other	na	na	na	na	na	na	na	14
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	24	29	34	67	67	59	62	48
Institutional	na	na	na	na	na	na	na	33
Domestic	na	na	na	na	na	na	na	15
Foreign	na	na	na	na	na	na	na	0
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	4
Unknown/not reported	na	na	na	na	na	na	na	1

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Architecture[a]	ne	ne	ne	ne	5	11	22	10
Federal	ne	ne	ne	ne	0	0	8	2
DOD	na	na	na	na	na	na	na	0
DOE	na	na	na	na	na	na	na	0
HHS	na	na	na	na	na	na	na	0
NIH	na	na	na	na	na	na	na	0
Other HHS	na	na	na	na	na	na	na	0
NASA	na	na	na	na	na	na	na	0
NSF	na	na	na	na	na	na	na	2
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	0
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	ne	ne	ne	ne	5	11	14	7
Institutional	na	na	na	na	na	na	na	5
Domestic	na	na	na	na	na	na	na	0
Foreign	na	na	na	na	na	na	na	2
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	0
Unknown/not reported	na	na	na	na	na	na	na	1
Biomedical engineering	425	477	591	640	640	710	960	1,036
Federal	353	379	451	438	438	470	679	555
DOD	na	na	na	na	na	na	na	48
DOE	na	na	na	na	na	na	na	16
HHS	na	na	na	na	na	na	na	410
NIH	na	na	na	na	na	na	na	397
Other HHS	na	na	na	na	na	na	na	13
NASA	na	na	na	na	na	na	na	2
NSF	na	na	na	na	na	na	na	49
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	30
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	72	98	140	202	202	240	281	191
Institutional	na	na	na	na	na	na	na	100
Domestic	na	na	na	na	na	na	na	72
Foreign	na	na	na	na	na	na	na	19
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	7
Unknown/not reported	na	na	na	na	na	na	na	283
Chemical engineering	689	702	735	758	790	880	1,084	1,092
Federal	492	450	443	426	447	403	585	497
DOD	ne	ne	ne	ne	ne	ne	ne	79
DOE	na	na	na	na	na	na	na	137
HHS	na	na	na	na	na	na	na	96
NIH	na	na	na	na	na	na	na	85
Other HHS	na	na	na	na	na	na	na	11
NASA	na	na	na	na	na	na	na	8
NSF	na	na	na	na	na	na	na	115
USDA	na	na	na	na	na	na	na	3
Other	na	na	na	na	na	na	na	59
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	197	252	292	332	343	477	499	381
Institutional	na	na	na	na	na	na	na	164
Domestic	na	na	na	na	na	na	na	156
Foreign	na	na	na	na	na	na	na	61
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	0
Unknown/not reported	na	na	na	na	na	na	na	214

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Civil engineering[a]	313	384	458	419	417	465	535	570
Federal	203	212	254	214	219	207	260	214
DOD	na	na	na	na	na	na	na	26
DOE	na	na	na	na	na	na	na	32
HHS	na	na	na	na	na	na	na	11
NIH	na	na	na	na	na	na	na	10
Other HHS	na	na	na	na	na	na	na	1
NASA	na	na	na	na	na	na	na	14
NSF	na	na	na	na	na	na	na	50
USDA	na	na	na	na	na	na	na	4
Other	na	na	na	na	na	na	na	77
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	110	172	204	205	198	258	275	266
Institutional	na	na	na	na	na	na	na	157
Domestic	na	na	na	na	na	na	na	73
Foreign	na	na	na	na	na	na	na	36
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	5
Unknown/not reported	na	na	na	na	na	na	na	85
Electrical engineering	654	689	721	885	884	987	1,025	1,097
Federal	482	467	441	522	520	521	586	537
DOD	na	na	na	na	na	na	na	224
DOE	na	na	na	na	na	na	na	53
HHS	na	na	na	na	na	na	na	77
NIH	na	na	na	na	na	na	na	74
Other HHS	na	na	na	na	na	na	na	3
NASA	na	na	na	na	na	na	na	8
NSF	na	na	na	na	na	na	na	119
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	56
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	172	222	280	363	364	466	439	298
Institutional	na	na	na	na	na	na	na	151
Domestic	na	na	na	na	na	na	na	114
Foreign	na	na	na	na	na	na	na	33
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	6
Unknown/not reported	na	na	na	na	na	na	na	256
Engineering science	180	168	224	192	183	214	226	243
Federal	162	134	153	124	119	125	151	162
DOD	na	na	na	na	na	na	na	42
DOE	na	na	na	na	na	na	na	35
HHS	na	na	na	na	na	na	na	21
NIH	na	na	na	na	na	na	na	21
Other HHS	na	na	na	na	na	na	na	0
NASA	na	na	na	na	na	na	na	10
NSF	na	na	na	na	na	na	na	37
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	17
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	18	34	71	68	64	89	75	70
Institutional	na	na	na	na	na	na	na	34
Domestic	na	na	na	na	na	na	na	20
Foreign	na	na	na	na	na	na	na	16
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	2
Unknown/not reported	na	na	na	na	na	na	na	9

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Industrial engineering	50	51	51	73	71	115	109	163
Federal	27	25	27	28	23	48	56	72
DOD	na	na	na	na	na	na	na	10
DOE	na	na	na	na	na	na	na	10
HHS	na	na	na	na	na	na	na	20
NIH	na	na	na	na	na	na	na	14
Other HHS	na	na	na	na	na	na	na	6
NASA	na	na	na	na	na	na	na	2
NSF	na	na	na	na	na	na	na	17
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	13
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	23	26	24	45	48	67	53	39
Institutional	na	na	na	na	na	na	na	22
Domestic	na	na	na	na	na	na	na	10
Foreign	na	na	na	na	na	na	na	7
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	17
Unknown/not reported	na	na	na	na	na	na	na	35
Mechanical engineering	514	562	644	725	722	784	948	1,009
Federal	380	388	442	438	437	443	535	573
DOD	na	na	na	na	na	na	na	162
DOE	na	na	na	na	na	na	na	95
HHS	na	na	na	na	na	na	na	63
NIH	na	na	na	na	na	na	na	57
Other HHS	na	na	na	na	na	na	na	6
NASA	na	na	na	na	na	na	na	29
NSF	na	na	na	na	na	na	na	127
USDA	na	na	na	na	na	na	na	2
Other	na	na	na	na	na	na	na	95
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	134	174	202	287	285	341	413	252
Institutional	na	na	na	na	na	na	na	124
Domestic	na	na	na	na	na	na	na	95
Foreign	na	na	na	na	na	na	na	33
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	2
Unknown/not reported	na	na	na	na	na	na	na	182
Metallurgical/materials engineering	567	578	571	555	564	605	758	835
Federal	371	353	348	294	294	311	429	467
DOD	na	na	na	na	na	na	na	131
DOE	na	na	na	na	na	na	na	112
HHS	na	na	na	na	na	na	na	41
NIH	na	na	na	na	na	na	na	39
Other HHS	na	na	na	na	na	na	na	2
NASA	na	na	na	na	na	na	na	8
NSF	na	na	na	na	na	na	na	112
USDA	na	na	na	na	na	na	na	1
Other	na	na	na	na	na	na	na	62
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	196	225	223	261	270	294	329	268
Institutional	na	na	na	na	na	na	na	103
Domestic	na	na	na	na	na	na	na	130
Foreign	na	na	na	na	na	na	na	35
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	4
Unknown/not reported	na	na	na	na	na	na	na	96

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Mining engineering	9	8	11	4	5	5	4	6
Federal	6	5	6	3	3	2	2	1
DOD	ne	ne	ne	ne	ne	ne	ne	0
DOE	na	na	na	na	na	na	na	1
HHS	na	na	na	na	na	na	na	0
NIH	na	na	na	na	na	na	na	0
Other HHS	na	na	na	na	na	na	na	0
NASA	na	na	na	na	na	na	na	0
NSF	na	na	na	na	na	na	na	0
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	0
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	3	3	5	1	2	3	2	1
Institutional	na	na	na	na	na	na	na	1
Domestic	na	na	na	na	na	na	na	0
Foreign	na	na	na	na	na	na	na	0
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	0
Unknown/not reported	na	na	na	na	na	na	na	4
Nuclear engineering	67	41	85	77	73	85	90	107
Federal	52	30	72	55	53	60	63	74
DOD	na	na	na	na	na	na	na	4
DOE	na	na	na	na	na	na	na	50
HHS	na	na	na	na	na	na	na	6
NIH	na	na	na	na	na	na	na	6
Other HHS	na	na	na	na	na	na	na	0
NASA	na	na	na	na	na	na	na	1
NSF	na	na	na	na	na	na	na	4
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	9
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	15	11	13	22	20	25	27	20
Institutional	na	na	na	na	na	na	na	6
Domestic	na	na	na	na	na	na	na	13
Foreign	na	na	na	na	na	na	na	1
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	0
Unknown/not reported	na	na	na	na	na	na	na	13
Petroleum engineering	14	13	18	22	22	28	36	46
Federal	8	8	9	11	11	5	6	7
DOD	na	na	na	na	na	na	na	0
DOE	na	na	na	na	na	na	na	7
HHS	na	na	na	na	na	na	na	0
NIH	na	na	na	na	na	na	na	0
Other HHS	na	na	na	na	na	na	na	0
NASA	na	na	na	na	na	na	na	0
NSF	na	na	na	na	na	na	na	0
USDA	na	na	na	na	na	na	na	0
Other	na	na	na	na	na	na	na	0
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	6	5	9	11	11	23	30	36
Institutional	na	na	na	na	na	na	na	13
Domestic	na	na	na	na	na	na	na	18
Foreign	na	na	na	na	na	na	na	5
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	0
Unknown/not reported	na	na	na	na	na	na	na	3

TABLE 37. Postdoctoral appointees in science, engineering, and health in all institutions, by field and primary source of support: 2004–10

Field and primary source of support	2004	2005	2006	2007old[a]	2007new[a]	2008	2009	2010[b]
Engineering, nec	247	251	252	241	249	284	341	432
Federal	190	189	189	152	155	190	211	263
DOD	na	na	na	na	na	na	na	59
DOE	na	na	na	na	na	na	na	91
HHS	na	na	na	na	na	na	na	20
NIH	na	na	na	na	na	na	na	14
Other HHS	na	na	na	na	na	na	na	6
NASA	na	na	na	na	na	na	na	6
NSF	na	na	na	na	na	na	na	54
USDA	na	na	na	na	na	na	na	2
Other	na	na	na	na	na	na	na	31
Federal, not reported	na	na	na	na	na	na	na	0
Nonfederal	57	62	63	89	94	94	130	98
Institutional	na	na	na	na	na	na	na	52
Domestic	na	na	na	na	na	na	na	26
Foreign	na	na	na	na	na	na	na	20
Nonfederal, not reported	na	na	na	na	na	na	na	0
Self-support	na	na	na	na	na	na	na	5
Unknown/not reported	na	na	na	na	na	na	na	66
Health[a,c]	13,175	14,099	14,456	14,818	14,617	15,961	17,001	19,364
Federal	8,427	9,284	9,180	9,177	9,038	8,951	9,537	8,437
DOD	na	na	na	na	na	na	na	340
DOE	na	na	na	na	na	na	na	20
HHS	na	na	na	na	na	na	na	7,289
NIH	na	na	na	na	na	na	na	7,039
Other HHS	na	na	na	na	na	na	na	250
NASA	na	na	na	na	na	na	na	21
NSF	na	na	na	na	na	na	na	48
USDA	na	na	na	na	na	na	na	37
Other	na	na	na	na	na	na	na	662
Federal, not reported	na	na	na	na	na	na	na	20
Nonfederal	4,748	4,815	5,276	5,641	5,579	7,010	7,464	5,822
Institutional	na	na	na	na	na	na	na	2,852
Domestic	na	na	na	na	na	na	na	2,616
Foreign	na	na	na	na	na	na	na	338
Nonfederal, not reported	na	na	na	na	na	na	na	16
Self-support	na	na	na	na	na	na	na	133
Unknown/not reported	na	na	na	na	na	na	na	4,972

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field in prior years.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

[b] In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

[c] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE 38. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, sex, and citizenship: 2010

Field	Postdoctoral appointees	Sex		Citizenship	
		Male	Female	U.S. citizens and permanent residents	Temporary visa holders
All surveyed fields	63,415	39,249	24,166	29,769	33,646
Science and engineering	44,051	28,752	15,299	20,419	23,632
Science	37,095	23,223	13,872	17,761	19,334
Agricultural sciences	1,195	748	447	611	584
Biological sciences	21,537	12,185	9,352	10,188	11,349
Anatomy	437	240	197	247	190
Biochemistry	2,533	1,536	997	1,164	1,369
Biology	2,555	1,487	1,068	1,317	1,238
Biometry/epidemiology	466	232	234	233	233
Biophysics	240	167	73	105	135
Botany	603	393	210	286	317
Cell biology	2,796	1,659	1,137	1,222	1,574
Ecology	238	132	106	158	80
Entomology/parasitology	233	139	94	130	103
Genetics	1,389	778	611	688	701
Microbiology/immunology/virology	2,374	1,284	1,090	1,134	1,240
Nutrition	219	96	123	112	107
Pathology	1,797	946	851	750	1,047
Pharmacology	1,656	899	757	728	928
Physiology	1,448	808	640	685	763
Zoology	76	48	28	61	15
Biological sciences, nec	2,477	1,341	1,136	1,168	1,309
Communication[a]	60	38	22	37	23
Computer sciences	748	622	126	313	435
Earth, atmospheric, and ocean sciences	1,760	1,158	602	951	809
Atmospheric sciences	184	133	51	76	108
Geosciences	601	416	185	279	322
Oceanography	332	172	160	192	140
Earth/atmospheric/ocean sciences, nec	643	437	206	404	239
Family and consumer sciences/human sciences[a]	30	7	23	22	8
Mathematical sciences	756	587	169	391	365
Mathematics/applied mathematics	680	525	155	358	322
Statistics	76	62	14	33	43
Multidisciplinary/interdisciplinary studies[a]	765	506	259	450	315
Neuroscience[a]	818	444	374	390	428
Physical sciences	7,703	6,092	1,611	3,198	4,505
Astronomy	532	399	133	275	257
Chemistry	4,241	3,255	986	1,682	2,559
Physics	2,628	2,184	444	1,107	1,521
Physical sciences, nec	302	254	48	134	168
Psychology	1,077	492	585	765	312
Clinical psychology	123	28	95	114	9
Psychology, general	634	312	322	434	200
Psychology, nec	320	152	168	217	103
Social sciences	646	344	302	445	201
Agricultural economics	44	33	11	24	20
Anthropology (cultural/social)	83	39	44	65	18
Economics (except agricultural)	47	35	12	24	23
Geography	62	39	23	46	16
History and philosophy of science	13	6	7	7	6

TABLE 38. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, sex, and citizenship: 2010

Field	Postdoctoral appointees	Sex		Citizenship	
		Male	Female	U.S. citizens and permanent residents	Temporary visa holders
Linguistics	27	17	10	14	13
Political science	85	44	41	66	19
Sociology	81	33	48	65	16
Sociology/anthropology	0	0	0	0	0
Social sciences, nec	204	98	106	134	70
Engineering	6,956	5,529	1,427	2,658	4,298
Aerospace engineering	191	166	25	69	122
Agricultural engineering	119	81	38	37	82
Architecture[a]	10	5	5	5	5
Biomedical engineering	1,036	738	298	499	537
Chemical engineering	1,092	858	234	454	638
Civil engineering[a]	570	426	144	244	326
Electrical engineering	1,097	939	158	324	773
Engineering science	243	198	45	94	149
Industrial engineering	163	126	37	78	85
Mechanical engineering	1,009	858	151	362	647
Metallurgical/materials engineering	835	669	166	285	550
Mining engineering	6	6	0	1	5
Nuclear engineering	107	94	13	55	52
Petroleum engineering	46	32	14	12	34
Engineering, nec	432	333	99	139	293
Health	19,364	10,497	8,867	9,350	10,014
Clinical medicine	16,610	8,991	7,619	7,958	8,652
Anesthesiology	477	283	194	222	255
Cardiology	700	429	271	292	408
Endocrinology	457	229	228	185	272
Gastroenterology	320	205	115	147	173
Hematology	352	208	144	161	191
Neurology[a]	1,328	692	636	595	733
Obstetrics/gynecology	333	152	181	160	173
Oncology/cancer research	1,903	1,039	864	812	1,091
Ophthalmology	523	295	228	207	316
Otorhinolaryngology	140	84	56	67	73
Pediatrics	1,209	538	671	680	529
Preventive medicine/community health	580	235	345	389	191
Psychiatry	1,066	393	673	758	308
Pulmonary disease	287	166	121	177	110
Radiology	1,034	682	352	438	596
Surgery	1,257	825	432	555	702
Clinical medicine, nec	4,644	2,536	2,108	2,113	2,531
Other health	2,754	1,506	1,248	1,392	1,362
Dental sciences	358	184	174	153	205
Nursing	55	6	49	51	4
Pharmaceutical sciences	1,102	694	408	514	588

TABLE 38. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, sex, and citizenship: 2010

Field	Postdoctoral appointees	Sex		Citizenship	
		Male	Female	U.S. citizens and permanent residents	Temporary visa holders
Speech pathology/audiology	54	23	31	38	16
Veterinary sciences	464	228	236	288	176
Other health, nec	721	371	350	348	373

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTE: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 39. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary source of support: 2010

Field	Total	Federal										Nonfederal					Self-support	Unknown/ not reported
		Total	DOD	DOE	HHS-NIH	HHS-Other	NASA	NSF	USDA	Other	Not reported	Total	Institutional	Domestic	Foreign	Not reported		
All surveyed fields	63,415	32,804	2,374	1,913	19,309	687	614	3,907	629	2,894	477	17,862	8,840	7,302	1,463	257	396	12,353
Science and engineering	44,051	24,367	2,034	1,893	12,270	437	593	3,859	592	2,232	457	12,040	5,988	4,686	1,125	241	263	7,381
Science	37,095	20,766	1,197	1,236	11,542	388	495	3,154	556	1,741	457	10,019	5,004	3,925	849	241	205	6,105
Agricultural sciences	1,195	631	15	34	49	8	1	108	278	138	0	514	301	189	24	0	17	33
Biological sciences	21,537	12,578	415	203	9,336	226	46	900	236	759	457	5,386	2,445	2,273	427	241	83	3,490
Anatomy	437	228	2	0	202	10	0	6	0	8	0	59	32	17	10	0	0	150
Biochemistry	2,533	1,507	34	24	1,112	46	6	75	7	72	131	627	282	235	38	72	6	393
Biology	2,555	1,420	38	34	914	20	7	314	17	76	0	799	377	313	109	0	4	332
Biometry/epidemiology	466	312	8	0	260	23	0	8	0	13	0	103	46	43	14	0	3	48
Biophysics	240	160	3	3	126	0	0	6	0	22	0	63	24	39	0	0	0	17
Botany	603	308	2	32	28	4	6	141	80	15	0	160	112	46	2	0	7	128
Cell biology	2,796	1,474	37	6	1,168	9	7	62	6	78	101	808	324	376	54	54	10	504
Ecology	238	107	1	1	16	0	1	58	5	25	0	80	62	18	0	0	3	48
Entomology/parasitology	233	136	5	3	29	7	0	18	58	16	0	71	45	20	6	0	4	22
Genetics	1,389	751	14	6	554	4	0	33	9	69	62	397	176	147	36	38	7	234
Microbiology/immunology/virology	2,374	1,557	55	29	1,270	36	0	43	8	43	73	516	236	229	36	15	6	295
Nutrition	219	127	4	1	83	1	0	1	27	10	0	70	47	22	1	0	3	19
Pathology	1,797	968	37	0	821	6	9	2	1	54	38	412	194	143	45	30	8	409
Pharmacology	1,656	1,053	64	2	880	20	1	8	0	78	0	330	145	155	30	0	4	269
Physiology	1,448	884	33	0	776	23	3	10	4	35	0	332	109	196	27	0	2	230
Zoology	76	57	4	2	20	0	2	15	6	8	0	17	9	7	1	0	2	0
Biological sciences, nec	2,477	1,529	74	60	1,077	17	4	100	8	137	52	542	225	267	18	32	14	392
Communication[a]	60	20	6	0	11	1	0	2	0	0	0	31	17	9	5	0	0	9
Computer sciences	748	448	106	24	54	6	10	195	2	51	0	204	90	90	24	0	7	89
Earth, atmospheric, and ocean sciences	1,760	806	59	55	19	3	141	316	14	199	0	541	326	163	52	0	9	404
Atmospheric sciences	184	127	5	12	2	0	17	43	1	47	0	56	20	27	9	0	0	1
Geosciences	601	328	9	35	0	0	73	151	5	55	0	203	123	60	20	0	6	64
Oceanography	332	201	25	1	12	2	9	90	3	59	0	125	45	62	18	0	1	5
Earth/atmospheric/ ocean sciences, nec	643	150	20	7	5	1	42	32	5	38	0	157	138	14	5	0	2	334
Family and consumer sciences/ human sciences[a]	30	12	1	0	5	4	0	1	0	1	0	8	6	2	0	0	0	10
Mathematical sciences	756	300	51	17	49	2	2	162	1	16	0	319	253	51	15	0	7	130
Mathematics/applied mathematics	680	259	46	17	23	2	2	154	1	14	0	307	245	50	12	0	7	107
Statistics	76	41	5	0	26	0	0	8	0	2	0	12	8	1	3	0	0	23

TABLE 39. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary source of support: 2010

Field	Total	Federal										Nonfederal					Self-support	Unknown/ not reported
		Total	DOD	DOE	HHS-NIH	HHS-Other	NASA	NSF	USDA	Other	Not reported	Total	Institutional	Domestic	Foreign	Not reported		
Multidisciplinary/interdisciplinary studies[a]	765	332	38	46	127	3	1	62	2	53	0	181	94	76	11	0	8	244
Neuroscience[a]	818	465	58	0	352	13	0	11	0	31	0	197	59	115	23	0	1	155
Physical sciences	7,703	4,348	408	853	1,060	78	282	1,291	10	366	0	2,015	1,048	762	205	0	38	1,302
Astronomy	532	319	8	15	0	0	123	114	0	59	0	113	50	55	8	0	6	94
Chemistry	4,241	2,280	202	286	950	75	19	598	6	144	0	1,277	616	521	140	0	20	664
Physics	2,628	1,631	182	535	102	3	131	516	4	158	0	592	369	168	55	0	12	393
Physical sciences, nec	302	118	16	17	8	0	9	63	0	5	0	33	13	18	2	0	0	151
Psychology	1,077	633	33	0	424	33	2	58	0	83	0	297	147	98	52	0	20	127
Clinical psychology	123	69	0	0	48	2	0	0	0	19	0	20	15	5	0	0	13	21
Psychology, general	634	360	15	0	244	18	0	42	0	41	0	181	79	66	36	0	5	88
Psychology, nec	320	204	18	0	132	13	2	16	0	23	0	96	53	27	16	0	2	18
Social sciences	646	193	7	4	56	11	10	48	13	44	0	326	218	97	11	0	15	112
Agricultural economics	44	18	0	1	0	0	0	0	10	7	0	18	12	6	0	0	1	7
Anthropology (cultural/social)	83	15	0	0	1	0	0	8	0	6	0	44	33	9	2	0	7	17
Economics (except agricultural)	47	1	0	0	1	0	0	0	0	0	0	28	17	11	0	0	1	17
Geography	62	33	1	0	1	0	8	13	3	7	0	17	10	6	1	0	0	12
History and philosophy of science	13	2	0	0	0	0	0	0	0	2	0	5	4	1	0	0	0	6
Linguistics	27	10	0	0	3	1	0	6	0	0	0	9	8	0	1	0	0	8
Political science	85	19	5	0	3	0	0	3	0	8	0	56	34	21	1	0	0	10
Sociology	81	37	0	1	23	1	1	10	0	1	0	34	27	5	2	0	0	10
Sociology/anthropology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Social sciences, nec	204	58	1	2	24	9	1	8	0	13	0	115	73	38	4	0	6	25
Engineering	6,956	3,601	837	657	728	49	98	705	36	491	0	2,021	984	761	276	0	58	1,276
Aerospace engineering	191	111	47	13	3	0	10	10	0	28	0	46	19	19	8	0	6	28
Agricultural engineering	119	66	5	5	8	1	0	9	24	14	0	48	33	15	0	0	4	1
Architecture[a]	10	2	0	0	0	0	0	2	0	0	0	7	5	0	2	0	0	1
Biomedical engineering	1,036	555	48	16	397	13	2	49	0	30	0	191	100	72	19	0	7	283
Chemical engineering	1,092	497	79	137	85	11	8	115	3	59	0	381	164	156	61	0	0	214
Civil engineering[a]	570	214	26	32	10	1	14	50	4	77	0	266	157	73	36	0	5	85
Electrical engineering	1,097	537	224	53	74	3	8	119	0	56	0	298	151	114	33	0	6	256
Engineering science	243	162	42	35	21	0	10	37	0	17	0	70	34	20	16	0	2	9
Industrial engineering	163	72	10	10	14	6	2	17	0	13	0	39	22	10	7	0	17	35
Mechanical engineering	1,009	573	162	95	57	6	29	127	2	95	0	252	124	95	33	0	2	182
Metallurgical/materials engineering	835	467	131	112	39	2	8	112	1	62	0	268	103	130	35	0	4	96
Mining engineering	6	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	4
Nuclear engineering	107	74	4	50	6	0	1	4	0	9	0	20	6	13	1	0	0	13
Petroleum engineering	46	7	0	7	0	0	0	0	0	0	0	36	13	18	5	0	0	3
Engineering, nec	432	263	59	91	14	6	6	54	2	31	0	98	52	26	20	0	5	66
Health	19,364	8,437	340	20	7,039	250	21	48	37	662	20	5,822	2,852	2,616	338	16	133	4,972

TABLE 39. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary source of support: 2010

Field	Total	Federal										Nonfederal						
		Total	DOD	DOE	HHS-NIH	HHS-Other	NASA	NSF	USDA	Other	Not reported	Total	Institutional	Domestic	Foreign	Not reported	Self-support	Unknown/ not reported
Clinical medicine	16,610	7,104	303	20	5,972	195	14	24	12	561	3	5,148	2,493	2,352	303	0	113	4,245
Anesthesiology	477	182	3	0	167	1	0	0	0	11	0	120	49	66	5	0	1	174
Cardiology	700	292	1	0	270	17	0	0	1	3	0	258	161	54	43	0	0	150
Endocrinology	457	214	4	0	205	3	0	0	0	2	0	174	42	97	35	0	1	68
Gastroenterology	320	161	1	0	134	0	0	0	0	26	0	74	57	9	8	0	0	85
Hematology	352	156	9	0	143	1	0	0	0	3	0	142	73	62	7	0	0	54
Neurology[a]	1,328	505	9	0	454	5	0	6	0	31	0	417	182	208	27	0	2	404
Obstetrics/gynecology	333	110	3	0	97	0	0	0	1	9	0	124	67	51	6	0	0	99
Oncology/cancer research	1,903	1,014	79	2	849	8	6	2	0	68	0	738	304	398	36	0	33	118
Ophthalmology	523	181	6	0	160	0	0	1	0	14	0	140	61	73	6	0	13	189
Otorhinolaryngology	140	83	2	0	79	0	0	0	0	2	0	34	20	7	7	0	2	21
Pediatrics	1,209	577	7	0	475	30	2	1	8	54	0	480	249	215	16	0	3	149
Preventive medicine/community health	580	307	5	2	240	31	1	5	2	18	3	152	82	68	2	0	8	113
Psychiatry	1,066	549	5	0	410	5	1	0	0	128	0	221	119	88	14	0	7	289
Pulmonary disease	287	150	0	0	140	1	0	1	0	8	0	80	41	33	6	0	0	57
Radiology	1,034	455	17	15	385	20	2	1	0	15	0	310	116	182	12	0	3	266
Surgery	1,257	478	58	0	390	3	0	1	0	26	0	469	207	235	27	0	11	299
Clinical medicine, nec	4,644	1,690	94	1	1,374	70	2	6	0	143	0	1,215	663	506	46	0	29	1,710
Other health	2,754	1,333	37	0	1,067	55	7	24	25	101	17	674	359	264	35	16	20	727
Dental sciences	358	242	9	0	186	7	0	0	0	23	17	75	35	14	12	14	0	41
Nursing	55	29	0	0	21	3	0	0	0	5	0	9	7	2	0	0	4	13
Pharmaceutical sciences	1,102	469	14	0	394	15	0	13	1	32	0	240	133	95	12	0	6	387
Speech pathology/audiology	54	37	0	0	29	0	0	3	0	5	0	12	6	4	2	0	0	5
Veterinary sciences	464	243	3	0	179	11	6	5	24	15	0	188	124	61	3	0	4	29
Other health, nec	721	313	11	0	258	19	1	3	0	21	0	150	54	88	6	2	6	252

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 40. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary mechanism of support: 2010

Field	Total	Fellowships	Research grants	Traineeships	Other types of support	Not reported
All surveyed fields	63,415	5,803	35,644	4,133	9,036	8,799
Science and engineering	44,051	3,646	27,054	2,062	5,696	5,593
Science	37,095	3,280	22,416	2,002	4,946	4,451
Agricultural sciences	1,195	54	905	16	170	50
Biological sciences	21,537	1,810	12,835	1,670	2,955	2,267
Anatomy	437	41	209	41	48	98
Biochemistry	2,533	149	1,615	150	395	224
Biology	2,555	330	1,527	105	332	261
Biometry/epidemiology	466	45	211	103	85	22
Biophysics	240	23	159	7	45	6
Botany	603	26	367	2	81	127
Cell biology	2,796	273	1,491	121	472	439
Ecology	238	16	138	2	46	36
Entomology/parasitology	233	3	170	2	42	16
Genetics	1,389	82	799	106	219	183
Microbiology/immunology/virology	2,374	201	1,532	190	286	165
Nutrition	219	3	149	15	35	17
Pathology	1,797	127	966	139	299	266
Pharmacology	1,656	149	1,003	128	179	197
Physiology	1,448	157	813	165	174	139
Zoology	76	4	64	2	6	0
Biological sciences, nec	2,477	181	1,622	392	211	71
Communication[a]	60	20	30	0	10	0
Computer sciences	748	62	541	10	62	73
Earth, atmospheric, and ocean sciences	1,760	165	980	15	233	367
Atmospheric sciences	184	20	149	0	14	1
Geosciences	601	76	404	2	76	43
Oceanography	332	53	242	13	22	2
Earth/atmospheric/ocean sciences, nec	643	16	185	0	121	321
Family and consumer sciences/human sciences[a]	30	4	13	1	5	7
Mathematical sciences	756	87	317	50	217	85
Mathematics/applied mathematics	680	81	277	50	209	63
Statistics	76	6	40	0	8	22
Multidisciplinary/interdisciplinary studies[a]	765	61	403	12	56	233
Neuroscience[a]	818	177	503	51	58	29
Physical sciences	7,703	564	5,073	58	821	1,187
Astronomy	532	65	322	1	54	90
Chemistry	4,241	348	2,753	43	499	598
Physics	2,628	146	1,852	14	255	361
Physical sciences, nec	302	5	146	0	13	138
Psychology	1,077	165	581	76	161	94
Clinical psychology	123	24	41	11	38	9
Psychology, general	634	86	336	47	86	79
Psychology, nec	320	55	204	18	37	6
Social sciences	646	111	235	43	198	59
Agricultural economics	44	2	26	0	9	7
Anthropology (cultural/social)	83	21	22	1	31	8
Economics (except agricultural)	47	5	17	0	15	10
Geography	62	3	32	4	11	12
History and philosophy of science	13	3	2	0	7	1
Linguistics	27	4	10	2	11	0
Political science	85	24	28	1	28	4

TABLE 40. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary mechanism of support: 2010

Field	Total	Fellowships	Research grants	Traineeships	Other types of support	Not reported
Sociology	81	11	26	18	23	3
Sociology/anthropology	0	0	0	0	0	0
Social sciences, nec	204	38	72	17	63	14
Engineering	6,956	366	4,638	60	750	1,142
Aerospace engineering	191	4	140	0	22	25
Agricultural engineering	119	0	96	1	22	0
Architecture[a]	10	2	5	1	2	0
Biomedical engineering	1,036	87	595	29	77	248
Chemical engineering	1,092	54	713	3	140	182
Civil engineering[a]	570	29	370	2	102	67
Electrical engineering	1,097	58	690	10	107	232
Engineering science	243	15	212	0	7	9
Industrial engineering	163	7	97	1	28	30
Mechanical engineering	1,009	59	652	3	142	153
Metallurgical/materials engineering	835	23	617	6	74	115
Mining engineering	6	0	2	0	0	4
Nuclear engineering	107	2	90	0	5	10
Petroleum engineering	46	0	42	0	1	3
Engineering, nec	432	26	317	4	21	64
Health	19,364	2,157	8,590	2,071	3,340	3,206
Clinical medicine	16,610	1,894	7,233	1,726	3,019	2,738
Anesthesiology	477	27	190	23	81	156
Cardiology	700	147	262	67	102	122
Endocrinology	457	63	198	50	88	58
Gastroenterology	320	47	120	34	37	82
Hematology	352	63	169	40	39	41
Neurology[a]	1,328	94	604	141	268	221
Obstetrics/gynecology	333	68	113	34	69	49
Oncology/cancer research	1,903	193	1,063	151	432	64
Ophthalmology	523	27	239	33	69	155
Otorhinolaryngology	140	37	69	18	8	8
Pediatrics	1,209	214	574	125	234	62
Preventive medicine/community health	580	64	251	87	74	104
Psychiatry	1,066	49	416	184	208	209
Pulmonary disease	287	51	98	48	40	50
Radiology	1,034	118	495	118	152	151
Surgery	1,257	83	572	122	318	162
Clinical medicine, nec	4,644	549	1,800	451	800	1,044
Other health	2,754	263	1,357	345	321	468
Dental sciences	358	22	194	59	59	24
Nursing	55	9	10	17	14	5
Pharmaceutical sciences	1,102	106	473	172	153	198

TABLE 40. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and primary mechanism of support: 2010

Field	Total	Fellowships	Research grants	Traineeships	Other types of support	Not reported
Speech pathology/audiology	54	0	35	6	9	4
Veterinary sciences	464	31	337	18	53	25
Other health, nec	721	95	308	73	33	212

nec = not elsewhere classified.

[a] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 41. Postdoctoral appointees in science, engineering, and health in all institutions, by field, primary source of support, and primary mechanism of support: 2010

Field and primary source of support	Total	Fellowships	Research grants	Traineeships	Other types of support	Not reported
All surveyed fields	63,415	5,803	35,644	4,133	9,036	8,799
Federal	32,804	2,130	26,940	2,784	738	212
DOD	2,374	108	2,192	22	34	18
DOE	1,913	22	1,831	6	13	41
HHS	19,996	1,392	15,816	2,431	279	78
NIH	19,309	1,339	15,271	2,356	275	68
Other HHS	687	53	545	75	4	10
NASA	614	48	532	13	20	1
NSF	3,907	199	3,444	51	167	46
USDA	629	6	582	3	28	10
Other	2,894	353	2,136	190	197	18
Federal, not reported	477	2	407	68	0	0
Nonfederal	17,862	2,969	7,894	434	6,366	199
Institutional	8,840	1,164	3,275	282	4,001	118
Domestic	7,302	1,289	4,091	114	1,727	81
Foreign	1,463	516	528	38	381	0
Nonfederal, not reported	257	0	0	0	257	0
Self-support	396	na	na	na	396	0
Unknown/not reported	12,353	704	810	915	1,536	8,388
Science and engineering	44,051	3,646	27,054	2,062	5,696	5,593
Federal	24,367	1,380	20,934	1,311	533	209
DOD	2,034	70	1,909	8	29	18
DOE	1,893	22	1,816	1	13	41
HHS	12,707	807	10,583	1,092	150	75
NIH	12,270	788	10,195	1,074	148	65
Other HHS	437	19	388	18	2	10
NASA	593	47	513	12	20	1
NSF	3,859	197	3,402	50	164	46
USDA	592	6	546	3	27	10
Other	2,232	229	1,775	80	130	18
Federal, not reported	457	2	390	65	0	0
Nonfederal	12,040	1,791	5,731	262	4,073	183
Institutional	5,988	559	2,461	178	2,687	103
Domestic	4,686	821	2,791	56	938	80
Foreign	1,125	411	479	28	207	0
Nonfederal, not reported	241	0	0	0	241	0
Self-support	263	na	na	na	263	0
Unknown/not reported	7,381	475	389	489	827	5,201
Science	37,095	3,280	22,416	2,002	4,946	4,451
Federal	20,766	1,259	17,668	1,268	394	177
DOD	1,197	50	1,103	7	21	16
DOE	1,236	18	1,178	1	5	34
HHS	11,930	766	9,905	1,059	131	69
NIH	11,542	747	9,565	1,042	129	59
Other HHS	388	19	340	17	2	10
NASA	495	31	435	12	16	1
NSF	3,154	178	2,790	45	109	32
USDA	556	6	513	2	25	10
Other	1,741	208	1,354	77	87	15
Federal, not reported	457	2	390	65	0	0
Nonfederal	10,019	1,608	4,415	245	3,610	141
Institutional	5,004	487	1,902	166	2,360	89
Domestic	3,925	766	2,223	54	830	52
Foreign	849	355	290	25	179	0
Nonfederal, not reported	241	0	0	0	241	0

TABLE 41. Postdoctoral appointees in science, engineering, and health in all institutions, by field, primary source of support, and primary mechanism of support: 2010

Field and primary source of support	Total	Fellowships	Research grants	Traineeships	Other types of support	Not reported
Self-support	205	na	na	na	205	0
Unknown/not reported	6,105	413	333	489	737	4,133
Engineering	6,956	366	4,638	60	750	1,142
Federal	3,601	121	3,266	43	139	32
DOD	837	20	806	1	8	2
DOE	657	4	638	0	8	7
HHS	777	41	678	33	19	6
NIH	728	41	630	32	19	6
Other HHS	49	0	48	1	0	0
NASA	98	16	78	0	4	0
NSF	705	19	612	5	55	14
USDA	36	0	33	1	2	0
Other	491	21	421	3	43	3
Federal, not reported	0	0	0	0	0	0
Nonfederal	2,021	183	1,316	17	463	42
Institutional	984	72	559	12	327	14
Domestic	761	55	568	2	108	28
Foreign	276	56	189	3	28	0
Nonfederal, not reported	0	0	0	0	0	0
Self-support	58	na	na	na	58	0
Unknown/not reported	1,276	62	56	0	90	1,068
Health	19,364	2,157	8,590	2,071	3,340	3,206
Federal	8,437	750	6,006	1,473	205	3
DOD	340	38	283	14	5	0
DOE	20	0	15	5	0	0
HHS	7,289	585	5,233	1,339	129	3
NIH	7,039	551	5,076	1,282	127	3
Other HHS	250	34	157	57	2	0
NASA	21	1	19	1	0	0
NSF	48	2	42	1	3	0
USDA	37	0	36	0	1	0
Other	662	124	361	110	67	0
Federal, not reported	20	0	17	3	0	0
Nonfederal	5,822	1,178	2,163	172	2,293	16
Institutional	2,852	605	814	104	1,314	15
Domestic	2,616	468	1,300	58	789	1
Foreign	338	105	49	10	174	0
Nonfederal, not reported	16	0	0	0	16	0
Self-support	133	na	na	na	133	0
Unknown/not reported	4,972	229	421	426	709	3,187
Clinical medicine[a]	16,610	1,894	7,233	1,726	3,019	2,738
Federal	7,104	660	4,961	1,304	179	0
DOD	303	35	251	14	3	0
DOE	20	0	15	5	0	0
HHS	6,167	524	4,346	1,189	108	0
NIH	5,972	492	4,235	1,139	106	0
Other HHS	195	32	111	50	2	0
NASA	14	1	12	1	0	0
NSF	24	0	22	1	1	0
USDA	12	0	12	0	0	0
Other	561	100	303	91	67	0
Federal, not reported	3	0	0	3	0	0

TABLE 41. Postdoctoral appointees in science, engineering, and health in all institutions, by field, primary source of support, and primary mechanism of support: 2010

Field and primary source of support	Total	Fellowships	Research grants	Traineeships	Other types of support	Not reported
Nonfederal	5,148	1,071	1,855	137	2,070	15
Institutional	2,493	569	652	88	1,169	15
Domestic	2,352	411	1,161	44	736	0
Foreign	303	91	42	5	165	0
Nonfederal, not reported	0	0	0	0	0	0
Self-support	113	na	na	na	113	0
Unknown/not reported	4,245	163	417	285	657	2,723
Other health	2,754	263	1,357	345	321	468
Federal	1,333	90	1,045	169	26	3
DOD	37	3	32	0	2	0
DOE	0	0	0	0	0	0
HHS	1,122	61	887	150	21	3
NIH	1,067	59	841	143	21	3
Other HHS	55	2	46	7	0	0
NASA	7	0	7	0	0	0
NSF	24	2	20	0	2	0
USDA	25	0	24	0	1	0
Other	101	24	58	19	0	0
Federal, not reported	17	0	17	0	0	0
Nonfederal	674	107	308	35	223	1
Institutional	359	36	162	16	145	0
Domestic	264	57	139	14	53	1
Foreign	35	14	7	5	9	0
Nonfederal, not reported	16	0	0	0	16	0
Self-support	20	na	na	na	20	0
Unknown/not reported	727	66	4	141	52	464

na = not applicable; data were not collected at this level of detail.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Details on primary mechanism and source of support for postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 due to lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 42. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
All surveyed fields	63,415	1,160	93	5,174	898	92	15,689	140	6,523	33,646
Science and engineering	44,051	763	59	3,371	529	51	11,084	79	4,483	23,632
Science	37,095	700	55	2,784	465	44	9,906	68	3,739	19,334
Agricultural sciences	1,195	24	4	116	22	0	375	0	70	584
Biological sciences	21,537	444	25	1,850	298	29	5,426	42	2,074	11,349
Anatomy	437	7	0	50	4	0	107	4	75	190
Biochemistry	2,533	47	3	254	27	6	577	2	248	1,369
Biology	2,555	60	3	187	27	1	795	7	237	1,238
Biometry/epidemiology	466	6	0	40	25	2	139	2	19	233
Biophysics	240	1	0	14	2	0	75	0	13	135
Botany	603	25	2	57	1	0	111	0	90	317
Cell biology	2,796	44	3	170	21	3	573	8	400	1,574
Ecology	238	12	1	7	1	0	93	1	43	80
Entomology/parasitology	233	7	0	22	2	0	85	0	14	103
Genetics	1,389	22	0	130	15	6	338	1	176	701
Microbiology/immunology/virology	2,374	51	5	176	39	3	637	8	215	1,240
Nutrition	219	5	0	23	8	0	68	1	7	107
Pathology	1,797	25	0	157	27	2	354	5	180	1,047
Pharmacology	1,656	32	4	140	25	4	379	1	143	928
Physiology	1,448	38	3	131	29	0	419	2	63	763
Zoology	76	1	0	5	0	0	50	0	5	15
Biological sciences, nec	2,477	61	1	287	45	2	626	0	146	1,309
Communication[b]	60	2	0	1	2	0	25	0	7	23
Computer sciences	748	8	2	50	5	0	171	0	77	435
Earth, atmospheric, and ocean sciences	1,760	28	6	75	9	0	635	4	194	809
Atmospheric sciences	184	2	0	12	0	0	48	1	13	108
Geosciences	601	6	0	21	4	0	217	0	31	322
Oceanography	332	8	6	15	2	0	137	2	22	140
Earth/atmospheric/ocean sciences, nec	643	12	0	27	3	0	233	1	128	239
Family and consumer sciences/human sciences[b]	30	0	0	3	2	0	17	0	0	8
Mathematical sciences	756	9	1	30	3	0	261	3	84	365
Mathematics/applied mathematics	680	9	1	28	3	0	244	3	70	322
Statistics	76	0	0	2	0	0	17	0	14	43
Multidisciplinary/interdisciplinary studies[b]	765	17	0	45	6	0	279	2	101	315
Neuroscience[b]	818	12	3	61	12	1	218	3	80	428

TABLE 42. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Physical sciences	7,703	92	11	468	53	12	1,723	7	832	4,505
Astronomy	532	3	0	19	0	10	174	0	69	257
Chemistry	4,241	59	8	297	42	2	808	2	464	2,559
Physics	2,628	29	3	143	6	0	649	5	272	1,521
Physical sciences, nec	302	1	0	9	5	0	92	0	27	168
Psychology	1,077	37	1	46	24	2	501	4	150	312
Clinical psychology	123	13	0	5	8	0	67	0	21	9
Psychology, general	634	19	0	23	13	1	275	2	101	200
Psychology, nec	320	5	1	18	3	1	159	2	28	103
Social sciences	646	27	2	39	29	0	275	3	70	201
Agricultural economics	44	1	0	4	2	0	10	0	7	20
Anthropology (cultural/social)	83	2	0	5	0	0	43	2	13	18
Economics (except agricultural)	47	0	0	2	0	0	13	0	9	23
Geography	62	1	1	5	0	0	28	0	11	16
History and philosophy of science	13	1	0	0	0	0	6	0	0	6
Linguistics	27	1	0	1	2	0	10	0	0	13
Political science	85	3	1	5	6	0	42	0	9	19
Sociology	81	2	0	2	3	0	51	0	7	16
Sociology/anthropology	0	0	0	0	0	0	0	0	0	0
Social sciences, nec	204	16	0	15	16	0	72	1	14	70
Engineering	6,956	63	4	587	64	7	1,178	11	744	4,298
Aerospace engineering	191	2	0	15	1	0	30	0	21	122
Agricultural engineering	119	4	0	17	3	0	13	0	0	82
Architecture[b]	10	0	0	0	1	0	2	0	2	5
Biomedical engineering	1,036	12	1	107	24	1	181	1	172	537
Chemical engineering	1,092	12	0	91	6	2	186	0	157	638
Civil engineering[b]	570	8	2	45	3	0	114	2	70	326
Electrical engineering	1,097	4	1	90	8	2	147	1	71	773
Engineering science	243	3	0	20	2	0	65	1	3	149
Industrial engineering	163	1	0	9	4	0	43	1	20	85
Mechanical engineering	1,009	7	0	92	4	0	157	0	102	647
Metallurgical/materials engineering	835	5	0	66	3	2	137	4	68	550
Mining engineering	6	0	0	0	0	0	1	0	0	5
Nuclear engineering	107	0	0	6	1	0	30	1	17	52
Petroleum engineering	46	1	0	4	0	0	4	0	3	34
Engineering, nec	432	4	0	25	4	0	68	0	38	293

TABLE 42. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Health	19,364	397	34	1,803	369	41	4,605	61	2,040	10,014
Clinical medicine	16,610	317	25	1,540	319	38	3,841	58	1,820	8,652
Anesthesiology	477	6	2	31	3	0	77	0	103	255
Cardiology	700	12	0	50	12	1	160	4	53	408
Endocrinology	457	13	0	26	11	0	94	0	41	272
Gastroenterology	320	3	0	35	8	0	78	0	23	173
Hematology	352	5	0	27	3	0	63	1	62	191
Neurology[b]	1,328	23	3	113	15	2	306	4	129	733
Obstetrics/gynecology	333	2	0	27	4	1	85	1	40	173
Oncology/cancer research	1,903	27	1	241	31	2	378	4	128	1,091
Ophthalmology	523	15	0	38	2	0	70	2	80	316
Otorhinolaryngology	140	4	0	14	2	0	37	1	9	73
Pediatrics	1,209	30	4	132	36	1	364	7	106	529
Preventive medicine/community health	580	21	5	47	32	5	174	5	100	191
Psychiatry	1,066	37	2	52	34	2	375	5	251	308
Pulmonary disease	287	3	0	26	6	0	104	2	36	110
Radiology	1,034	11	1	113	11	1	231	3	67	596
Surgery	1,257	24	1	108	23	0	302	5	92	702
Clinical medicine, nec	4,644	81	6	460	86	23	943	14	500	2,531
Other health	2,754	80	9	263	50	3	764	3	220	1,362
Dental sciences	358	6	1	46	3	1	59	0	37	205
Nursing	55	3	0	4	8	0	34	1	1	4
Pharmaceutical sciences	1,102	22	5	120	12	0	293	1	61	588
Speech pathology/audiology	54	2	0	3	2	0	19	0	12	16
Veterinary sciences	464	20	1	58	4	2	187	1	15	176
Other health, nec	721	27	2	32	21	0	172	0	94	373

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
All surveyed fields	24,166	595	46	2,203	523	52	6,822	67	2,587	11,271
Science and engineering	15,299	372	29	1,372	273	27	4,443	39	1,391	7,353
Science	13,872	353	28	1,236	247	24	4,152	32	1,253	6,547
Agricultural sciences	447	10	2	43	9	0	167	0	33	183
Biological sciences	9,352	237	16	910	164	21	2,576	20	850	4,558
Anatomy	197	3	0	23	3	0	58	1	26	83
Biochemistry	997	23	2	110	14	4	263	1	91	489
Biology	1,068	31	1	89	13	0	355	4	86	489
Biometry/epidemiology	234	3	0	26	18	0	87	1	12	87
Biophysics	73	0	0	5	1	0	22	0	6	39
Botany	210	16	0	22	0	0	51	0	14	107
Cell biology	1,137	23	2	89	13	3	266	5	100	636
Ecology	106	9	1	3	1	0	37	0	24	31
Entomology/parasitology	94	1	0	9	0	0	37	0	5	42
Genetics	611	6	0	66	8	5	166	0	85	275
Microbiology/immunology/virology	1,090	28	4	85	21	2	307	3	112	528
Nutrition	123	3	0	14	8	0	45	1	3	49
Pathology	851	12	0	82	14	2	183	3	98	457
Pharmacology	757	21	3	68	13	3	180	0	83	386
Physiology	640	17	2	67	17	0	188	1	44	304
Zoology	28	0	0	2	0	0	20	0	3	3
Biological sciences, nec	1,136	41	1	150	20	2	311	0	58	553
Communication[b]	22	1	0	0	1	0	10	0	2	8
Computer sciences	126	2	0	12	2	0	28	0	21	61
Earth, atmospheric, and ocean sciences	602	16	3	29	6	0	233	1	63	251
Atmospheric sciences	51	1	0	3	0	0	16	0	2	29
Geosciences	185	2	0	9	2	0	61	0	15	96
Oceanography	160	7	3	6	2	0	77	1	8	56
Earth/atmospheric/ocean sciences, nec	206	6	0	11	2	0	79	0	38	70
Family and consumer sciences/human sciences[b]	23	0	0	3	1	0	12	0	0	7
Mathematical sciences	169	1	0	12	0	0	63	0	14	79
Mathematics/applied mathematics	155	1	0	11	0	0	60	0	12	71
Statistics	14	0	0	1	0	0	3	0	2	8
Multidisciplinary/interdisciplinary studies[b]	259	7	0	14	3	0	117	1	22	95

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Neuroscience[b]	374	6	2	31	7	0	104	1	42	181
Physical sciences	1,611	34	4	126	21	3	395	4	104	920
Astronomy	133	2	0	6	0	3	46	0	12	64
Chemistry	986	24	3	86	19	0	230	1	63	560
Physics	444	7	1	31	2	0	106	3	26	268
Physical sciences, nec	48	1	0	3	0	0	13	0	3	28
Psychology	585	24	1	31	17	0	297	4	77	134
Clinical psychology	95	12	0	5	6	0	49	0	18	5
Psychology, general	322	11	0	15	8	0	150	2	43	93
Psychology, nec	168	1	1	11	3	0	98	2	16	36
Social sciences	302	15	0	25	16	0	150	1	25	70
Agricultural economics	11	0	0	2	0	0	3	0	0	6
Anthropology (cultural/social)	44	2	0	1	0	0	27	1	5	8
Economics (except agricultural)	12	0	0	1	0	0	2	0	2	7
Geography	23	0	0	2	0	0	14	0	3	4
History and philosophy of science	7	0	0	0	0	0	3	0	0	4
Linguistics	10	1	0	1	1	0	4	0	0	3
Political science	41	2	0	4	4	0	20	0	6	5
Sociology	48	2	0	2	3	0	30	0	2	9
Sociology/anthropology	0	0	0	0	0	0	0	0	0	0
Social sciences, nec	106	8	0	12	8	0	47	0	7	24
Engineering	1,427	19	1	136	26	3	291	7	138	806
Aerospace engineering	25	1	0	2	0	0	3	0	5	14
Agricultural engineering	38	1	0	6	2	0	7	0	0	22
Architecture[b]	5	0	0	0	1	0	0	0	1	3
Biomedical engineering	298	5	0	34	14	1	63	1	39	141
Chemical engineering	234	4	0	25	2	0	51	0	14	138
Civil engineering[b]	144	1	1	8	0	0	39	2	18	75
Electrical engineering	158	2	0	12	3	1	18	1	12	109
Engineering science	45	1	0	6	0	0	12	0	1	25
Industrial engineering	37	0	0	0	1	0	12	0	3	21
Mechanical engineering	151	2	0	14	1	0	29	0	21	84
Metallurgical/materials engineering	166	1	0	18	1	1	35	3	10	97
Mining engineering	0	0	0	0	0	0	0	0	0	0
Nuclear engineering	13	0	0	0	0	0	4	0	0	9
Petroleum engineering	14	0	0	1	0	0	1	0	1	11
Engineering, nec	99	1	0	10	1	0	17	0	13	57

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Health	8,867	223	17	831	250	25	2,379	28	1,196	3,918
Clinical medicine	7,619	165	11	714	217	23	1,979	26	1,078	3,406
Anesthesiology	194	4	1	13	0	0	36	0	42	98
Cardiology	271	5	0	19	6	1	65	2	21	152
Endocrinology	228	7	0	13	10	0	55	0	25	118
Gastroenterology	115	1	0	8	7	0	29	0	10	60
Hematology	144	4	0	12	3	0	26	1	26	72
Neurology[b]	636	10	1	59	8	0	146	1	70	341
Obstetrics/gynecology	181	2	0	18	3	0	61	1	19	77
Oncology/cancer research	864	13	1	101	20	1	191	1	69	467
Ophthalmology	228	7	0	18	1	0	26	2	18	156
Otorhinolaryngology	56	0	0	5	1	0	20	0	3	27
Pediatrics	671	16	3	87	28	1	221	4	73	238
Preventive medicine/community health	345	16	3	28	24	2	113	2	70	87
Psychiatry	673	26	1	31	28	1	229	3	198	156
Pulmonary disease	121	2	0	9	3	0	41	0	25	41
Radiology	352	3	0	43	4	0	88	1	22	191
Surgery	432	7	0	39	11	0	105	2	33	235
Clinical medicine, nec	2,108	42	1	211	60	17	527	6	354	890
Other health	1,248	58	6	117	33	2	400	2	118	512
Dental sciences	174	5	0	24	1	1	34	0	25	84
Nursing	49	3	0	4	8	0	29	1	1	3
Pharmaceutical sciences	408	11	3	48	5	0	128	1	20	192

TABLE 43. Female postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Speech pathology/audiology	31	2	0	3	2	0	10	0	8	6
Veterinary sciences	236	15	1	20	3	1	108	0	13	75
Other health, nec	350	22	2	18	14	0	91	0	51	152

nec = not elsewhere classified.

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 due to lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
All institutions[b]	37,095	700	55	2,784	465	44	9,906	68	3,739	19,334
New England	5,609	65	10	293	28	2	1,327	22	772	3,090
Connecticut	956	5	1	65	9	0	253	4	73	546
Trinity C., Hartford	4	0	0	0	0	0	3	0	0	1
U. CT	117	0	0	6	0	0	23	0	21	67
Wesleyan U.	14	1	0	3	0	0	7	0	1	2
Yale U.	821	4	1	56	9	0	220	4	51	476
Maine	19	0	0	0	0	0	12	0	1	6
U. ME	19	0	0	0	0	0	12	0	1	6
Massachusetts	4,152	47	8	213	16	2	859	18	682	2,307
Boston C.	62	0	5	5	0	0	13	0	0	39
Boston U.	372	2	1	16	0	0	83	1	95	174
Brandeis U.	111	0	0	4	0	0	13	0	32	62
Clark U.	8	0	0	0	0	0	1	0	0	7
Harvard U.	2,116	23	0	97	8	2	379	6	424	1,177
MA Institute of Technology	698	11	1	34	1	0	154	5	104	388
Mt. Holyoke C.	4	0	0	0	0	0	3	0	0	1
Northeastern U.	57	1	0	8	0	0	14	0	5	29
Tufts U.	159	3	0	10	1	0	58	5	2	80
U. MA, Amherst	160	2	1	6	2	0	41	0	13	95
U. MA, Dartmouth	11	1	0	4	0	0	3	0	0	3
U. MA, Lowell	19	0	0	1	0	0	1	0	1	16
U. MA, Medical School	303	3	0	26	4	0	67	1	4	198
Williams C.	1	0	0	0	0	0	0	0	1	0
Woods Hole Oceanographic Institution	60	1	0	2	0	0	26	0	0	31
Worcester Polytechnic Institute	11	0	0	0	0	0	3	0	1	7
New Hampshire	174	4	1	4	0	0	67	0	2	96
Dartmouth C.	138	3	1	2	0	0	53	0	1	78
U. NH	36	1	0	2	0	0	14	0	1	18
Rhode Island	243	4	0	9	2	0	112	0	14	102
Brown U.	211	3	0	8	2	0	103	0	14	81
U. RI	32	1	0	1	0	0	9	0	0	21
Vermont	65	5	0	2	1	0	24	0	0	33
U. VT	65	5	0	2	1	0	24	0	0	33

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Middle Atlantic	6,052	100	9	356	82	5	1,287	10	468	3,735
New Jersey	718	13	5	30	12	0	203	0	28	427
Montclair State U.	4	0	0	0	0	0	0	0	0	4
NJ Institute of Technology	7	0	0	0	0	0	0	0	2	5
Princeton U.	362	8	1	14	6	0	141	0	2	190
Rutgers, State U. NJ	214	2	4	5	3	0	35	0	24	141
Seton Hall U.	3	2	0	0	0	0	0	0	0	1
Stevens Institute of Technology	6	0	0	0	0	0	2	0	0	4
U. of Medicine and Dentistry of NJ	121	1	0	11	3	0	25	0	0	81
William Paterson U.	1	0	0	0	0	0	0	0	0	1
New York	3,594	55	2	247	44	2	751	7	194	2,292
Albany Medical C.	49	0	0	5	0	0	10	0	0	34
Clarkson U.	9	0	0	0	0	0	0	0	0	9
Columbia U. in the City of New York	676	7	0	30	12	1	166	0	44	416
Cornell U.	440	11	1	42	7	0	144	0	4	231
CUNY, Brooklyn C.	18	1	0	2	1	0	5	1	0	8
CUNY, City C.	42	0	0	6	0	0	3	0	5	28
CUNY, C. Staten Island	11	0	0	2	0	0	0	0	2	7
CUNY, Graduate Ctr.	24	1	0	6	0	0	4	0	0	13
CUNY, Hunter C.	15	0	0	0	0	0	0	0	15	0
CUNY, Queens C.	11	0	0	0	0	0	0	0	4	7
Fordham U.	4	0	0	1	0	0	1	0	0	2
Hofstra U.	2	0	0	0	0	0	1	0	0	1
Mt. Sinai School of Medicine	502	11	0	36	10	0	78	0	0	367
NY Medical C.	29	0	0	0	1	0	0	0	1	27
NY U.	489	9	0	45	5	0	110	0	26	294
Polytechnic Institute of NY U.	5	0	0	1	0	0	2	0	0	2
Rensselaer Polytechnic U., Troy	37	0	0	2	0	0	4	0	0	31
Rochester Institute of Technology	15	0	0	0	0	0	5	0	1	9
Rockefeller U.	266	1	0	22	1	0	76	0	0	166
SUNY, Binghamton U.	17	0	0	0	1	0	5	0	0	11
SUNY, C. of Environmental Science and Forestry	5	0	0	0	0	0	4	0	0	1
SUNY, C. of Optometry	8	1	0	3	0	0	0	0	0	4
SUNY, Downstate Medical Ctr.	21	0	0	0	0	0	5	0	0	16
SUNY, Stony Brook U.	129	1	0	9	1	0	26	0	4	88
SUNY, U. Albany	28	1	0	2	0	0	1	0	18	6
SUNY, U. Buffalo	209	2	1	9	1	0	30	0	8	158
SUNY, Upstate Medical U.	19	0	0	1	0	0	2	0	0	16
Syracuse U.	45	0	0	0	2	0	16	0	0	27

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
U. Rochester	205	0	0	3	2	0	25	1	59	115
Yeshiva U.	264	9	0	20	0	1	28	5	3	198
Pennsylvania	1,740	32	2	79	26	3	333	3	246	1,016
Bryn Mawr C.	2	1	0	0	0	0	1	0	0	0
Carnegie Mellon U.	152	0	1	10	3	0	37	0	14	87
Drexel U.	56	0	0	0	0	0	0	0	19	37
Duquesne U.	6	0	0	0	0	0	3	0	0	3
Lehigh U.	24	1	0	0	1	0	9	0	0	13
PA State U.	336	3	1	8	1	0	74	1	27	221
St. Joseph's U.	1	0	0	1	0	0	0	0	0	0
Swarthmore C.	2	0	0	0	0	0	1	0	0	1
Temple U.	67	0	0	2	0	0	17	0	0	48
Thomas Jefferson U.	101	5	0	11	1	0	28	0	0	56
U. PA	592	15	0	1	17	3	52	2	182	320
U. Pittsburgh	394	7	0	46	3	0	110	0	0	228
U. of the Sciences Philadelphia	4	0	0	0	0	0	0	0	4	0
Villanova U.	2	0	0	0	0	0	1	0	0	1
West Chester U. PA	1	0	0	0	0	0	0	0	0	1
East North Central[b]	4,514	53	10	302	62	5	1,471	10	180	2,421
Illinois[b]	1,415	15	3	66	25	0	386	2	93	825
IL Institute of Technology	16	0	0	0	0	0	0	0	3	13
IL State U.	6	0	0	0	0	0	4	0	0	2
Loyola U., Chicago	40	0	3	3	2	0	9	0	0	23
Midwestern U.	1	0	0	0	0	0	0	0	0	1
Northern IL U.	6	0	0	0	0	0	0	0	3	3
Northwestern U.	361	1	0	17	5	0	99	0	53	186
Rosalind Franklin U. of Medicine and Science	13	0	0	2	0	0	2	0	1	8
Southern IL U., Carbondale	10	0	0	2	0	0	1	0	0	7
U. Chicago	407	4	0	13	6	0	136	2	5	241
U. IL, Chicago	131	2	0	8	3	0	23	0	4	91
U. IL, Urbana-Champaign	401	8	0	21	9	0	112	0	4	247
Indiana	521	3	0	32	7	0	135	1	12	331
IN State U.	1	0	0	0	0	0	0	0	0	1
IN U.	202	1	0	18	3	0	78	0	0	102
Purdue U.	222	1	0	12	2	0	39	0	5	163
U. Notre Dame	95	1	0	2	2	0	17	1	7	65
Valparaiso U.	1	0	0	0	0	0	1	0	0	0

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Michigan	1,022	14	2	68	13	0	290	4	36	595
Central MI U.	5	0	0	0	0	0	2	0	0	3
MI State U.	382	5	1	18	7	0	113	1	0	237
MI Technological U.	11	0	0	0	0	0	0	0	4	7
Oakland U.	15	0	1	11	0	0	1	0	2	0
U. MI	521	9	0	29	5	0	142	3	28	305
Wayne State U.	80	0	0	9	1	0	27	0	1	42
Western MI U.	8	0	0	1	0	0	5	0	1	1
Ohio	671	9	3	50	12	5	176	3	14	399
Bowling Green State U.	26	1	0	0	0	0	4	0	0	21
Case Western Reserve U.	120	1	2	19	3	5	31	0	0	59
Cleveland State U.	11	2	0	0	0	0	1	0	0	8
Kent State U.	22	0	0	0	1	0	7	0	1	13
Miami U.	30	0	0	3	2	0	12	0	0	13
Northeastern OH Universities, C. of Medicine	13	0	0	0	0	0	1	2	0	10
OH State U.	277	4	1	21	3	0	71	0	3	174
OH U.	10	0	0	0	0	0	3	0	2	5
U. Akron	19	0	0	2	0	0	5	0	0	12
U. Cincinnati	84	1	0	4	1	0	26	1	3	48
U. Dayton	4	0	0	0	0	0	0	0	0	4
U. Toledo	41	0	0	0	2	0	10	0	2	27
Wright State U.	13	0	0	1	0	0	5	0	3	4
Youngstown State U.	1	0	0	0	0	0	0	0	0	1
Wisconsin	885	12	2	86	5	0	484	0	25	271
Marquette U.	17	1	0	1	0	0	2	0	0	13
Medical C. WI	72	0	0	2	1	0	29	0	0	40
U. WI, Madison	791	11	2	83	4	0	450	0	25	216
U. WI, Milwaukee	5	0	0	0	0	0	3	0	0	2
West North Central	1,918	36	0	155	16	1	563	1	104	1,042
Iowa	321	5	0	5	6	1	82	0	13	209
IA State U.	161	1	0	2	4	0	26	0	13	115
U. IA	159	4	0	3	2	1	56	0	0	93
U. Northern IA	1	0	0	0	0	0	0	0	0	1
Kansas	199	2	0	3	1	0	53	0	6	134
KS State U.	63	1	0	0	0	0	9	0	6	47
U. KS	135	1	0	3	1	0	43	0	0	87
Wichita State U.	1	0	0	0	0	0	1	0	0	0

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Minnesota	541	18	0	33	2	0	168	1	37	282
Mayo Graduate School	141	3	0	10	0	0	37	0	1	90
U. MN	400	15	0	23	2	0	131	1	36	192
Missouri	562	4	0	102	7	0	202	0	38	209
A. T. Still U.	1	0	0	0	0	0	0	0	0	1
Lincoln U., Jefferson City	6	0	0	1	0	0	0	0	0	5
MO U. of Science and Technology	3	0	0	0	0	0	0	0	0	3
St. Louis U.	33	0	0	3	0	0	8	0	0	22
U. MO, Columbia	239	0	0	9	2	0	73	0	7	148
U. MO, Kansas City	15	0	0	3	0	0	4	0	0	8
U. MO, St. Louis	15	0	0	1	1	0	5	0	0	8
Washington U., St. Louis	250	4	0	85	4	0	112	0	31	14
Nebraska	208	7	0	10	0	0	43	0	2	146
Creighton U.	22	2	0	2	0	0	0	0	2	16
U. NE, Lincoln	115	3	0	7	0	0	31	0	0	74
U. NE, Medical Ctr.	69	2	0	0	0	0	11	0	0	56
U. NE, Omaha	2	0	0	1	0	0	1	0	0	0
North Dakota	49	0	0	2	0	0	6	0	0	41
ND State U.	38	0	0	2	0	0	6	0	0	30
U. ND	11	0	0	0	0	0	0	0	0	11
South Dakota	38	0	0	0	0	0	9	0	8	21
SD School of Mines and Technology	2	0	0	0	0	0	2	0	0	0
SD State U.	23	0	0	0	0	0	7	0	0	16
U. SD	13	0	0	0	0	0	0	0	8	5
South Atlantic	5,266	124	8	559	134	2	1,609	10	240	2,580
Delaware	70	0	1	10	1	0	14	0	2	42
DE State U.	6	0	1	3	0	0	0	0	2	0
U. DE	64	0	0	7	1	0	14	0	0	42
District of Columbia	156	3	0	16	2	0	34	0	35	66
Catholic U. America	9	0	0	2	0	0	1	0	1	5
Gallaudet U.	11	0	0	0	0	0	11	0	0	0
George Washington U.	52	3	0	11	0	0	12	0	26	0
Georgetown U.	69	0	0	3	0	0	10	0	8	48
Howard U.	15	0	0	0	2	0	0	0	0	13
Florida	895	49	0	140	21	0	271	2	32	380
FL A&M U.	3	0	0	0	0	0	0	0	0	3

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
FL Atlantic U.	5	0	0	0	0	0	1	0	0	4
FL Institute of Technology	9	0	0	0	0	0	0	0	0	9
FL International U.	32	5	0	1	0	0	7	0	0	19
FL State U.	205	4	0	6	3	0	42	0	1	149
Nova Southeastern U.	3	0	0	0	0	0	1	0	1	1
U. Central FL	31	1	0	1	0	0	6	0	0	23
U. FL	383	23	0	121	13	0	144	2	29	51
U. Miami	108	12	0	9	4	0	21	0	0	62
U. South FL, Tampa	116	4	0	2	1	0	49	0	1	59
Georgia	909	14	3	115	31	0	189	1	57	499
Clark Atlanta U.	11	0	0	4	3	0	0	0	2	2
Emory U.	378	8	2	29	14	0	86	1	34	204
GA Health Sciences U.	112	0	0	3	0	0	10	0	1	98
GA Institute of Technology	114	3	0	28	4	0	39	0	1	39
GA State U.	68	0	0	6	0	0	5	0	4	53
Mercer U.	8	0	0	0	1	0	3	0	0	4
Morehouse School of Medicine	15	0	0	5	3	0	0	0	0	7
U. GA	203	3	1	40	6	0	46	0	15	92
Maryland	1,158	15	0	96	32	1	270	5	59	680
Johns Hopkins U.	594	7	0	48	22	1	140	2	42	332
Uniformed Services U. of the Health Sciences	64	2	0	6	4	0	22	2	5	23
U. MD, Baltimore	142	3	0	9	2	0	28	0	1	99
U. MD, Baltimore County	75	1	0	4	3	0	14	0	0	53
U. MD, College Park	283	2	0	29	1	0	66	1	11	173
North Carolina	1,203	31	2	109	29	1	520	1	20	490
Duke U.	411	9	1	33	8	0	174	0	6	180
East Carolina U.	32	0	0	4	1	0	10	0	0	17
NC Agricultural and Technical State U.	14	0	0	2	1	0	2	0	0	9
NC State U.	154	4	0	33	0	0	71	1	1	44
U. NC, Chapel Hill	472	14	0	32	14	1	212	0	7	192
U. NC, Charlotte	22	0	0	0	0	0	5	0	0	17
U. NC, Greensboro	11	0	0	0	0	0	6	0	0	5
U. NC, Wilmington	10	0	1	0	0	0	5	0	2	2
Wake Forest U.	77	4	0	5	5	0	35	0	4	24
South Carolina	223	0	1	36	9	0	82	0	8	87
Clemson U.	35	0	1	20	3	0	10	0	0	1
Furman U.	3	0	0	2	0	0	1	0	0	0

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Medical U. SC	112	0	0	13	3	0	46	0	0	50
U. SC	73	0	0	1	3	0	25	0	8	36
Virginia	590	11	1	30	9	0	213	1	20	305
C. of William and Mary	31	0	0	1	0	0	14	0	0	16
Eastern VA Medical School	14	0	0	8	2	0	2	0	1	1
George Mason U.	26	1	0	1	0	0	6	0	4	14
Hampton U.	5	0	0	0	0	0	2	0	0	3
Old Dominion U.	20	0	1	0	0	0	7	0	0	12
U. VA	249	4	0	13	1	0	101	0	14	116
VA Commonwealth U.	127	1	0	3	4	0	43	0	1	75
VA Polytechnic Institute and State U.	118	5	0	4	2	0	38	1	0	68
West Virginia	62	1	0	7	0	0	16	0	7	31
Marshall U.	6	0	0	1	0	0	2	0	0	3
WV U.	56	1	0	6	0	0	14	0	7	28
East South Central	1,284	16	0	96	38	0	397	4	69	664
Alabama	235	5	0	23	10	0	73	1	7	116
AL A&M U.	1	0	0	1	0	0	0	0	0	0
AL State U.	15	0	0	0	0	0	0	0	6	9
Auburn U.	27	2	0	7	0	0	13	0	0	5
U. AL, Birmingham	128	2	0	11	10	0	46	1	0	58
U. AL, Huntsville	17	0	0	3	0	0	5	0	0	9
U. AL, Tuscaloosa	34	1	0	0	0	0	6	0	0	27
U. South AL	13	0	0	1	0	0	3	0	1	8
Kentucky	240	0	0	9	2	0	58	0	22	149
U. KY	185	0	0	6	0	0	49	0	22	108
U. Louisville	55	0	0	3	2	0	9	0	0	41
Mississippi	126	1	0	7	4	0	17	1	2	94
Jackson State U.	25	0	0	2	0	0	1	0	1	21
MS State U.	17	1	0	1	0	0	2	0	1	12
U. MS	63	0	0	2	4	0	12	1	0	44
U. Southern MS	21	0	0	2	0	0	2	0	0	17
Tennessee	683	10	0	57	22	0	249	2	38	305
East TN State U.	9	0	0	0	1	0	5	0	0	3
Fisk U.	4	0	0	0	0	0	0	0	1	3
Meharry Medical C.	36	0	0	3	9	0	4	0	0	20
U. Memphis	18	0	0	0	1	0	5	0	1	11

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
U. TN, Health Science Ctr.	63	1	0	1	3	0	10	0	2	46
U. TN, Knoxville	133	4	0	5	1	0	40	1	1	81
Vanderbilt U.	420	5	0	48	7	0	185	1	33	141
West South Central	2,838	58	5	253	35	6	555	2	175	1,749
Arkansas	123	1	1	8	1	0	33	1	3	75
AR State U.	13	0	0	1	1	0	2	1	0	8
U. AR, Fayetteville	70	1	0	4	0	0	22	0	3	40
U. AR for Medical Sciences	31	0	1	2	0	0	7	0	0	21
U. AR, Little Rock	9	0	0	1	0	0	2	0	0	6
Louisiana	338	3	1	19	5	0	63	1	34	212
LA State U.	254	1	1	10	2	0	43	0	34	163
LA Tech U.	5	0	0	2	0	0	2	0	0	1
Southern U. and A&M C.	6	0	0	2	0	0	1	0	0	3
Tulane U.	69	2	0	5	3	0	15	1	0	43
U. LA, Lafayette	4	0	0	0	0	0	2	0	0	2
Oklahoma	160	3	0	43	1	0	53	0	2	58
OK State U.	49	1	0	6	1	0	16	0	0	25
U. OK	109	2	0	37	0	0	37	0	2	31
U. Tulsa	2	0	0	0	0	0	0	0	0	2
Texas	2,217	51	3	183	28	6	406	0	136	1,404
Baylor C. of Medicine	322	7	0	31	1	0	36	0	50	197
Baylor U.	14	1	0	0	0	0	5	0	0	8
Prairie View A&M U.	1	0	0	0	0	0	0	0	0	1
Rice U.	123	3	0	0	4	5	48	0	2	61
Sam Houston State U.	4	0	0	0	0	0	2	0	0	2
Southern Methodist U.	23	0	0	0	0	0	4	0	0	19
TX A&M Health Science Ctr.	99	1	0	10	2	0	16	0	0	70
TX A&M U.	228	5	0	9	1	0	60	0	7	146
TX A&M U., Commerce	4	0	0	1	1	0	0	0	0	2
TX A&M U., Corpus Christi	5	1	0	0	0	0	0	0	0	4
TX Christian U.	8	0	0	0	0	0	2	0	0	6
TX Southern U.	3	0	0	2	0	0	1	0	0	0
TX State U., San Marcos	9	0	0	4	1	0	1	0	1	2
TX Tech U.	92	3	0	11	1	0	24	0	2	51
U. Houston	157	0	0	21	4	0	18	0	1	113
U. North TX, Denton	26	0	0	2	0	0	4	0	0	20
U. TX, Arlington	45	0	1	0	0	0	3	0	0	41

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
U. TX, Austin	161	4	0	14	0	0	57	0	4	82
U. TX, Dallas	40	0	1	5	1	0	14	0	2	17
U. TX, El Paso	15	4	0	2	0	0	3	0	0	6
U. TX, Health Science Ctr., San Antonio	75	0	0	0	0	0	0	0	26	49
U. TX, M. D. Anderson Cancer Ctr.	228	8	0	15	4	0	33	0	0	168
U. TX, Medical Branch	126	4	0	13	4	1	21	0	0	83
U. TX, Pan American	3	0	0	0	0	0	0	0	0	3
U. TX, Permian Basin	1	0	0	0	0	0	0	0	0	1
U. TX, San Antonio	31	1	0	22	0	0	5	0	0	3
U. TX, Southwestern Medical Ctr., Dallas	374	9	1	21	4	0	49	0	41	249
Mountain	2,272	58	4	124	13	2	814	3	369	885
Arizona	413	6	0	26	3	1	108	1	56	212
AZ State U.	164	3	0	17	1	0	48	1	2	92
Northern AZ U.	13	0	0	0	0	0	0	0	13	0
U. AZ	236	3	0	9	2	1	60	0	41	120
Colorado	994	33	2	78	5	1	523	0	66	286
CO School of Mines	17	0	0	2	0	0	14	0	0	1
CO State U., Ft. Collins	193	7	1	30	2	1	77	0	15	60
U. CO	772	26	1	46	3	0	427	0	51	218
U. Denver	12	0	0	0	0	0	5	0	0	7
Idaho	51	2	0	3	0	0	24	0	0	22
Boise State U.	7	1	0	0	0	0	4	0	0	2
ID State U.	10	1	0	1	0	0	5	0	0	3
U. ID	34	0	0	2	0	0	15	0	0	17
Montana	80	0	0	0	0	0	36	0	10	34
MT State U.	48	0	0	0	0	0	12	0	10	26
U. MT	32	0	0	0	0	0	24	0	0	8
Nevada	77	2	0	1	1	0	30	1	0	42
U. NV, Las Vegas	22	0	0	0	1	0	4	0	0	17
U. NV, Reno	55	2	0	1	0	0	26	1	0	25
New Mexico	148	15	2	11	4	0	61	0	4	51
Eastern NM U.	1	0	0	0	0	0	0	0	0	1
NM Institute of Mining and Technology	1	0	0	0	0	0	0	0	0	1
NM State U.	12	0	0	0	0	0	1	0	3	8
U. NM	134	15	2	11	4	0	60	0	1	41

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Utah	458	0	0	1	0	0	16	1	230	210
Brigham Young U.	18	0	0	0	0	0	6	0	2	10
U. UT	416	0	0	0	0	0	0	0	228	188
UT State U.	24	0	0	1	0	0	10	1	0	12
Wyoming	51	0	0	4	0	0	16	0	3	28
U. WY	51	0	0	4	0	0	16	0	3	28
Pacific[b]	7,289	169	9	644	57	21	1,879	6	1,361	3,143
Alaska	45	0	0	0	0	0	27	0	0	18
U. AK, Anchorage	4	0	0	0	0	0	3	0	0	1
U. AK, Fairbanks	40	0	0	0	0	0	23	0	0	17
U. AK, Southeast	1	0	0	0	0	0	1	0	0	0
California[b]	5,910	148	8	589	55	9	1,429	4	1,088	2,580
CA Institute of Technology	463	8	0	49	3	0	144	2	1	256
CA State U., Fresno	1	0	0	0	0	0	0	0	0	1
CA State U., Los Angeles	6	0	0	2	0	0	0	0	0	4
Loma Linda U.	6	1	0	2	0	0	0	0	0	3
San Diego State U.	35	0	0	0	0	0	2	0	9	24
San Francisco State U.	16	2	0	2	0	0	2	0	0	10
Stanford U.	859	17	5	42	12	2	232	1	63	485
U. CA, Berkeley	853	0	0	0	0	0	0	0	826	27
U. CA, Davis	538	18	1	131	1	0	221	0	38	128
U. CA, Irvine	266	8	0	18	1	1	59	0	7	172
U. CA, Los Angeles	657	23	0	70	8	0	175	0	14	367
U. CA, San Diego	793	20	2	39	3	5	191	1	39	493
U. CA, San Francisco	647	36	0	192	17	0	242	0	21	139
U. CA, Santa Barbara	214	3	0	10	6	0	74	0	2	119
U. CA, Santa Cruz	144	6	0	14	0	0	45	0	27	52
U. San Diego	2	0	0	0	0	0	2	0	0	0
U. Southern CA	213	6	0	18	4	1	40	0	4	140
Hawaii	182	1	0	6	0	10	33	2	6	124
U. HI, Manoa	182	1	0	6	0	10	33	2	6	124
Oregon	416	5	1	25	1	0	191	0	35	158
OR Health and Science U.	179	2	0	19	1	0	101	0	0	56
OR State U.	132	3	1	5	0	0	64	0	6	53
Portland State U.	25	0	0	1	0	0	9	0	1	14
U. OR	80	0	0	0	0	0	17	0	28	35

TABLE 44. Postdoctoral appointees in science in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Washington	736	15	0	24	1	2	199	0	232	263
U. WA	590	12	0	22	1	2	169	0	228	156
WA State U.	144	3	0	2	0	0	29	0	4	106
Western WA U.	2	0	0	0	0	0	1	0	0	1
Outlying Areas	53	21	0	2	0	0	4	0	1	25
Puerto Rico	53	21	0	2	0	0	4	0	1	25
Ponce School of Medicine	1	0	0	0	0	0	0	0	0	1
Universidad Central del Caribe	1	0	0	0	0	0	0	0	0	1
U. PR, Mayaguez	2	1	0	0	0	0	0	0	0	1
U. PR, Medical Sciences Campus	11	8	0	1	0	0	1	0	1	0
U. PR, Rio Piedras	38	12	0	1	0	0	3	0	0	22

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; these institutions are not listed separately.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
All institutions[b]	6,956	63	4	587	64	7	1,178	11	744	4,298
New England	1,141	4	0	60	4	0	130	2	181	760
Connecticut	86	0	0	5	1	0	12	0	6	62
U. CT	24	0	0	0	0	0	1	0	4	19
Yale U.	62	0	0	5	1	0	11	0	2	43
Maine	6	0	0	0	0	0	4	0	1	1
U. ME	6	0	0	0	0	0	4	0	1	1
Massachusetts	968	4	0	55	3	0	110	2	153	641
Boston U.	159	0	0	0	0	0	0	0	58	101
Harvard U.	88	1	0	9	1	0	21	1	0	55
MA Institute of Technology	588	3	0	29	2	0	75	1	85	393
Northeastern U.	27	0	0	7	0	0	4	0	7	9
Tufts U.	24	0	0	2	0	0	3	0	0	19
U. MA, Amherst	53	0	0	5	0	0	4	0	2	42
U. MA, Dartmouth	2	0	0	1	0	0	0	0	0	1
U. MA, Lowell	5	0	0	0	0	0	2	0	0	3
Woods Hole Oceanographic Institution	11	0	0	2	0	0	1	0	0	8
Worcester Polytechnic Institute	11	0	0	0	0	0	0	0	1	10
New Hampshire	33	0	0	0	0	0	0	0	14	19
Dartmouth C.	32	0	0	0	0	0	0	0	14	18
U. NH	1	0	0	0	0	0	0	0	0	1
Rhode Island	44	0	0	0	0	0	1	0	7	36
Brown U.	37	0	0	0	0	0	0	0	7	30
U. RI	7	0	0	0	0	0	1	0	0	6
Vermont	4	0	0	0	0	0	3	0	0	1
U. VT	4	0	0	0	0	0	3	0	0	1
Middle Atlantic	874	8	1	47	9	0	156	2	28	623
New Jersey	182	1	0	9	1	0	19	1	1	150
NJ Institute of Technology	11	0	0	0	0	0	0	0	1	10
Princeton U.	122	1	0	3	0	0	15	1	0	102
Rutgers, State U. NJ	35	0	0	4	1	0	3	0	0	27
Stevens Institute of Technology	14	0	0	2	0	0	1	0	0	11
New York	357	3	0	25	7	0	68	1	13	240
Alfred U.	2	0	0	0	0	0	0	0	2	0
Clarkson U.	10	0	0	0	0	0	2	0	0	8

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
Columbia U. in the City of New York	75	0	0	6	2	0	19	0	0	48
Cornell U.	97	1	0	13	2	0	17	1	2	61
CUNY, City C.	42	1	0	1	1	0	9	0	0	30
Polytechnic Institute of NY U.	7	1	0	1	0	0	0	0	0	5
Rensselaer Polytechnic U., Troy	55	0	0	0	0	0	9	0	9	37
Rochester Institute of Technology	2	0	0	0	0	0	0	0	0	2
SUNY, Binghamton U.	4	0	0	0	0	0	0	0	0	4
SUNY, C. of Environmental Science and Forestry	1	0	0	0	0	0	0	0	0	1
SUNY, Downstate Medical Ctr.	2	0	0	0	0	0	0	0	0	2
SUNY, Stony Brook U.	15	0	0	1	1	0	3	0	0	10
SUNY, U. Albany	11	0	0	0	1	0	3	0	0	7
SUNY, U. Buffalo	13	0	0	1	0	0	1	0	0	11
Syracuse U.	4	0	0	0	0	0	1	0	0	3
U. Rochester	17	0	0	2	0	0	4	0	0	11
Pennsylvania	335	4	1	13	1	0	69	0	14	233
Carnegie Mellon U.	48	0	1	1	1	0	11	0	2	32
Drexel U.	17	0	0	0	0	0	0	0	4	13
Lehigh U.	25	0	0	1	0	0	3	0	0	21
PA State U.	95	2	0	5	0	0	16	0	0	72
Temple U.	5	0	0	0	0	0	0	0	0	5
U. PA	81	2	0	6	0	0	19	0	8	46
U. Pittsburgh	55	0	0	0	0	0	18	0	0	37
Villanova U.	9	0	0	0	0	0	2	0	0	7
East North Central	1,048	11	0	73	3	0	221	2	38	700
Illinois	305	5	0	21	1	0	47	1	5	225
IL Institute of Technology	37	1	0	2	0	0	3	0	3	28
Northwestern U.	166	2	0	14	1	0	35	0	2	112
U. IL, Chicago	8	1	0	0	0	0	0	0	0	7
U. IL, Urbana-Champaign	94	1	0	5	0	0	9	1	0	78
Indiana	153	1	0	5	0	0	27	0	4	116
IN U.	11	0	0	0	0	0	0	0	0	11
Purdue U.	90	0	0	5	0	0	18	0	1	66
U. Notre Dame	52	1	0	0	0	0	9	0	3	39
Michigan	277	2	0	15	2	0	60	0	6	192
Central MI U.	1	0	0	0	0	0	0	0	0	1
Lawrence Technological U.	2	0	0	0	0	0	0	0	0	2
MI State U.	47	0	0	2	0	0	5	0	0	40

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
MI Technological U.	7	0	0	0	0	0	0	0	5	2
Oakland U.	6	0	0	4	0	0	2	0	0	0
U. MI	194	2	0	8	1	0	51	0	1	131
Wayne State U.	18	0	0	1	1	0	2	0	0	14
Western MI U.	2	0	0	0	0	0	0	0	0	2
Ohio	149	0	0	9	0	0	18	0	20	102
Case Western Reserve U.	10	0	0	0	0	0	2	0	0	8
OH State U.	79	0	0	2	0	0	11	0	0	66
OH U.	6	0	0	2	0	0	1	0	1	2
U. Akron	22	0	0	2	0	0	2	0	2	16
U. Cincinnati	18	0	0	1	0	0	0	0	17	0
U. Dayton	4	0	0	0	0	0	0	0	0	4
U. Toledo	5	0	0	0	0	0	0	0	0	5
Wright State U.	4	0	0	1	0	0	2	0	0	1
Youngstown State U.	1	0	0	1	0	0	0	0	0	0
Wisconsin	164	3	0	23	0	0	69	1	3	65
Marquette U.	2	0	0	0	0	0	2	0	0	0
U. WI, Madison	156	3	0	21	0	0	64	1	3	64
U. WI, Milwaukee	6	0	0	2	0	0	3	0	0	1
West North Central	401	3	0	37	0	0	51	1	5	304
Iowa	110	0	0	7	0	0	9	1	3	90
IA State U.	101	0	0	5	0	0	8	1	3	84
U. IA	9	0	0	2	0	0	1	0	0	6
Kansas	19	0	0	2	0	0	1	0	0	16
U. KS	15	0	0	2	0	0	1	0	0	12
Wichita State U.	4	0	0	0	0	0	0	0	0	4
Minnesota	114	0	0	5	0	0	12	0	2	95
U. MN	114	0	0	5	0	0	12	0	2	95
Missouri	95	2	0	23	0	0	15	0	0	55
MO State U.	1	0	0	0	0	0	0	0	0	1
MO U. of Science and Technology	25	0	0	0	0	0	2	0	0	23
St. Louis U.	1	0	0	0	0	0	0	0	0	1
U. MO, Columbia	26	0	0	0	0	0	4	0	0	22
U. MO, Kansas City	2	0	0	0	0	0	0	0	0	2
Washington U., St. Louis	40	2	0	23	0	0	9	0	0	6

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
Nebraska	31	1	0	0	0	0	6	0	0	24
U. NE, Lincoln	31	1	0	0	0	0	6	0	0	24
North Dakota	15	0	0	0	0	0	2	0	0	13
ND State U.	14	0	0	0	0	0	2	0	0	12
U. ND	1	0	0	0	0	0	0	0	0	1
South Dakota	17	0	0	0	0	0	6	0	0	11
SD School of Mines and Technology	10	0	0	0	0	0	5	0	0	5
SD State U.	7	0	0	0	0	0	1	0	0	6
South Atlantic	1,024	16	1	166	28	1	215	4	49	544
Delaware	49	1	0	2	0	0	13	0	0	33
U. DE	49	1	0	2	0	0	13	0	0	33
District of Columbia	10	0	0	6	0	0	4	0	0	0
George Washington U.	10	0	0	6	0	0	4	0	0	0
Florida	174	8	1	33	5	0	41	1	4	81
FL Atlantic U.	4	1	0	0	0	0	2	0	0	1
FL Institute of Technology	2	0	0	0	0	0	0	0	0	2
FL International U.	7	1	0	0	0	0	0	0	0	6
FL State U.	36	0	1	1	4	0	2	0	0	28
U. Central FL	27	0	0	3	0	0	8	1	0	15
U. FL	78	6	0	24	1	0	22	0	3	22
U. Miami	5	0	0	1	0	0	3	0	0	1
U. South FL, Tampa	15	0	0	4	0	0	4	0	1	6
Georgia	187	1	0	65	7	0	41	0	6	67
Emory U.	23	0	0	3	1	0	8	0	0	11
GA Institute of Technology	159	1	0	62	6	0	32	0	6	52
U. GA	5	0	0	0	0	0	1	0	0	4
Maryland	235	3	0	17	8	0	45	3	15	144
Johns Hopkins U.	122	2	0	3	4	0	16	3	13	81
U. MD, Baltimore	8	0	0	0	1	0	4	0	0	3
U. MD, Baltimore County	5	0	0	0	0	0	2	0	0	3
U. MD, College Park	100	1	0	14	3	0	23	0	2	57
North Carolina	155	2	0	32	5	1	26	0	20	69
Duke U.	70	0	0	2	1	0	11	0	19	37
NC Agricultural and Technical State U.	11	0	0	5	1	0	1	0	0	4
NC State U.	62	2	0	24	2	0	10	0	1	23

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	
U. NC, Chapel Hill	6	0	0	1	1	1	0	0	0	3
U. NC, Charlotte	6	0	0	0	0	0	4	0	0	2
South Carolina	64	0	0	6	1	0	12	0	0	45
Clemson U.	12	0	0	3	0	0	5	0	0	4
Medical U. SC	1	0	0	0	1	0	0	0	0	0
U. SC	51	0	0	3	0	0	7	0	0	41
Virginia	129	1	0	5	2	0	29	0	1	91
George Mason U.	2	0	0	0	0	0	0	0	1	1
Old Dominion U.	10	0	0	0	0	0	1	0	0	9
U. VA	29	0	0	1	2	0	7	0	0	19
VA Commonwealth U.	13	0	0	0	0	0	0	0	0	13
VA Polytechnic Institute and State U.	75	1	0	4	0	0	21	0	0	49
West Virginia	21	0	0	0	0	0	4	0	3	14
WV U.	21	0	0	0	0	0	4	0	3	14
East South Central	166	2	0	14	2	0	35	0	5	108
Alabama	17	0	0	5	0	0	0	0	0	12
Auburn U.	6	0	0	3	0	0	0	0	0	3
U. AL, Birmingham	2	0	0	0	0	0	0	0	0	2
U. AL, Huntsville	1	0	0	0	0	0	0	0	0	1
U. AL, Tuscaloosa	8	0	0	2	0	0	0	0	0	6
Kentucky	39	1	0	3	1	0	11	0	4	19
U. KY	29	0	0	3	1	0	6	0	4	15
U. Louisville	10	1	0	0	0	0	5	0	0	4
Mississippi	25	0	0	0	0	0	2	0	0	23
Jackson State U.	2	0	0	0	0	0	0	0	0	2
MS State U.	20	0	0	0	0	0	1	0	0	19
U. MS	3	0	0	0	0	0	1	0	0	2
Tennessee	85	1	0	6	1	0	22	0	1	54
TN Technological U.	4	0	0	2	0	0	0	0	0	2
U. Memphis	3	1	0	0	0	0	1	0	0	1
U. TN, Health Science Ctr.	2	0	0	0	0	0	0	0	1	1
U. TN, Knoxville	45	0	0	2	1	0	12	0	0	30
Vanderbilt U.	31	0	0	2	0	0	9	0	0	20

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								Temporary visa holders
		Hispanic or Latino	Not Hispanic or Latino						Unknown ethnicity/race	
			American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]		
West South Central	451	4	0	48	8	5	74	0	5	307
Arkansas	33	0	0	1	2	0	4	0	0	26
U. AR, Fayetteville	33	0	0	1	2	0	4	0	0	26
Louisiana	29	0	0	3	0	0	4	0	0	22
LA State U.	16	0	0	1	0	0	3	0	0	12
LA Tech U.	2	0	0	0	0	0	1	0	0	1
Tulane U.	3	0	0	0	0	0	0	0	0	3
U. LA, Lafayette	8	0	0	2	0	0	0	0	0	6
Oklahoma	44	1	0	8	1	0	10	0	1	23
OK State U.	6	0	0	0	0	0	2	0	0	4
U. OK	27	0	0	7	1	0	6	0	1	12
U. Tulsa	11	1	0	1	0	0	2	0	0	7
Texas	345	3	0	36	5	5	56	0	4	236
Prairie View A&M U.	1	0	0	0	1	0	0	0	0	0
Rice U.	56	0	0	0	2	3	11	0	3	37
Southern Methodist U.	2	0	0	1	0	1	0	0	0	0
TX A&M U.	48	0	0	1	1	0	8	0	0	38
TX Tech U.	29	0	0	3	0	0	5	0	0	21
U. Houston	36	1	0	6	0	0	5	0	0	24
U. North TX, Denton	11	0	0	4	0	1	1	0	0	5
U. TX, Arlington	22	0	0	1	0	0	6	0	0	15
U. TX, Austin	96	1	0	9	0	0	15	0	0	71
U. TX, Dallas	29	0	0	5	0	0	4	0	0	20
U. TX, El Paso	2	1	0	0	0	0	1	0	0	0
U. TX, Medical Branch	1	0	0	0	0	0	0	0	0	1
U. TX, Pan American	3	0	0	0	0	0	0	0	0	3
U. TX, San Antonio	8	0	0	6	0	0	0	0	1	1
U. TX, Tyler	1	0	0	0	1	0	0	0	0	0
Mountain	353	5	1	39	2	1	84	0	42	179
Arizona	70	1	0	11	0	1	13	0	7	37
AZ State U.	41	1	0	10	0	0	7	0	0	23
U. AZ	29	0	0	1	0	1	6	0	7	14
Colorado	133	2	0	24	1	0	54	0	9	43
CO School of Mines	26	0	0	10	0	0	15	0	0	1
CO State U., Ft. Collins	32	1	0	5	0	0	9	0	4	13
U. CO	75	1	0	9	1	0	30	0	5	29

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
Idaho	15	1	0	0	0	0	1	0	0	13
Boise State U.	4	0	0	0	0	0	0	0	0	4
ID State U.	3	0	0	0	0	0	0	0	0	3
U. ID	8	1	0	0	0	0	1	0	0	6
Montana	3	0	0	0	0	0	3	0	0	0
MT State U.	3	0	0	0	0	0	3	0	0	0
Nevada	11	0	0	0	0	0	2	0	0	9
U. NV, Las Vegas	1	0	0	0	0	0	0	0	0	1
U. NV, Reno	10	0	0	0	0	0	2	0	0	8
New Mexico	38	1	1	0	1	0	7	0	1	27
NM Institute of Mining and Technology	2	0	0	0	0	0	0	0	0	2
NM State U.	2	0	0	0	0	0	0	0	1	1
U. NM	34	1	1	0	1	0	7	0	0	24
Utah	71	0	0	2	0	0	4	0	24	41
Brigham Young U.	1	0	0	0	0	0	0	0	0	1
U. UT	63	0	0	0	0	0	0	0	24	39
UT State U.	7	0	0	2	0	0	4	0	0	1
Wyoming	12	0	0	2	0	0	0	0	1	9
U. WY	12	0	0	2	0	0	0	0	1	9
Pacific[b]	1,496	9	1	103	8	0	212	0	391	772
Alaska	4	0	0	0	0	0	3	0	0	1
U. AK, Fairbanks	4	0	0	0	0	0	3	0	0	1
California[b]	1,301	9	1	95	7	0	194	0	298	697
CA Institute of Technology	125	1	0	6	1	0	37	0	0	80
Loyola Marymount U.	1	0	0	0	0	0	0	0	0	1
San Diego State U.	8	0	0	0	0	0	1	0	1	6
Santa Clara U.	1	0	0	1	0	0	0	0	0	0
Stanford U.	226	2	0	12	1	0	46	0	18	147
U. CA, Berkeley	353	0	0	0	0	0	0	0	266	87
U. CA, Davis	128	2	1	47	3	0	36	0	6	33
U. CA, Irvine	29	2	0	0	0	0	1	0	0	26
U. CA, Los Angeles	105	0	0	12	0	0	16	0	0	77
U. CA, San Diego	118	0	0	9	2	0	24	0	0	83
U. CA, Santa Barbara	120	2	0	7	0	0	31	0	1	79

TABLE 45. Postdoctoral appointees in engineering in all institutions, by region, state, institution, and citizenship and by ethnicity and race of U.S. citizens and permanent residents: 2010

Field	Total	U.S. citizens and permanent residents								
			Not Hispanic or Latino							
		Hispanic or Latino	American Indian or Alaska Native	Asian[a]	Black or African American	Native Hawaiian or Other Pacific Islander[a]	White	More than one race[a]	Unknown ethnicity/race	Temporary visa holders
U. CA, Santa Cruz	11	0	0	0	0	0	1	0	1	9
U. Southern CA	42	0	0	1	0	0	1	0	1	39
Hawaii	16	0	0	0	1	0	1	0	3	11
U. HI, Manoa	16	0	0	0	1	0	1	0	3	11
Oregon	30	0	0	7	0	0	13	0	0	10
OR Health and Science U.	12	0	0	5	0	0	7	0	0	0
OR State U.	11	0	0	1	0	0	5	0	0	5
Portland State U.	7	0	0	1	0	0	1	0	0	5
Washington	145	0	0	1	0	0	1	0	90	53
U. WA	115	0	0	0	0	0	0	0	90	25
WA State U.	30	0	0	1	0	0	1	0	0	28
Outlying Areas	2	1	0	0	0	0	0	0	0	1
Puerto Rico	2	1	0	0	0	0	0	0	0	1
U. PR, Mayaguez	2	1	0	0	0	0	0	0	0	1

[a] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[b] Totals for "all institutions" and relevant regional and state totals include data imputed for nonresponding institutions; these institutions are not listed separately.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Ethnicity and race of postdocs were collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

Rank	Institution	All postdoctoral appointees	Science and engineering			Health
			Total	Science	Engineering	
–	All institutions[a]	63,415	44,051	37,095	6,956	19,364
1	Harvard U.	5,827	2,204	2,116	88	3,623
2	Stanford U.	1,777	1,085	859	226	692
3	Johns Hopkins U.	1,721	716	594	122	1,005
4	U. CA, San Diego	1,514	911	793	118	603
5	U. WI, Madison	1,369	947	791	156	422
6	Columbia U. in the City of New York	1,358	751	676	75	607
7	MA Institute of Technology	1,286	1,286	698	588	0
8	Yale U.	1,283	883	821	62	400
9	U. CA, Berkeley	1,253	1,206	853	353	47
10	U. MI	1,209	715	521	194	494
11	U. WA	1,175	705	590	115	470
12	U. CA, Los Angeles	1,121	762	657	105	359
13	U. CA, San Francisco	1,094	647	647	0	447
14	U. PA	1,042	673	592	81	369
15	U. CO	1,024	847	772	75	177
16	U. Pittsburgh	891	449	394	55	442
17	Boston U.	870	531	372	159	339
18	U. CA, Davis	860	666	538	128	194
19	U. NC, Chapel Hill	844	478	472	6	366
20	Duke U.	807	481	411	70	326
21	Cornell U.	765	537	440	97	228
22	Northwestern U.	741	527	361	166	214
23	U. MN	687	514	400	114	173
24	Vanderbilt U.	681	451	420	31	230
25	Emory U.	672	401	378	23	271
26	U. FL	648	461	383	78	187
27	OH State U.	597	356	277	79	241
28	CA Institute of Technology	588	588	463	125	0
29	U. TX, Southwestern Medical Ctr., Dallas	585	374	374	0	211
30	U. TX, M. D. Anderson Cancer Ctr.	581	228	228	0	353
31	U. Chicago	570	407	407	0	163
32	U. IL, Urbana-Champaign	513	495	401	94	18
33	U. UT	508	479	416	63	29
34	Mt. Sinai School of Medicine	502	502	502	0	0
35	Baylor C. of Medicine	494	322	322	0	172
36	NY U.	489	489	489	0	0
37	Princeton U.	484	484	362	122	0
38	Washington U., St. Louis	484	290	250	40	194
39	PA State U.	481	431	336	95	50
40	MI State U.	445	429	382	47	16
41	U. Southern CA	427	255	213	42	172
42	U. MA, Medical School	403	303	303	0	100
43	Mayo Graduate School	399	141	141	0	258
44	U. MD, College Park	396	383	283	100	13
45	U. VA	396	278	249	29	118
46	Yeshiva U.	393	264	264	0	129
47	U. CA, Irvine	387	295	266	29	92
48	U. IA	383	168	159	9	215
49	U. MD, Baltimore	378	150	142	8	228
50	U. Rochester	356	222	205	17	134

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

Rank	Institution	All postdoctoral appointees	Science and engineering			Health
			Total	Science	Engineering	
51	Purdue U.	351	312	222	90	39
52	IN U.	343	213	202	11	130
53	U. CA, Santa Barbara	334	334	214	120	0
54	LA State U.	326	270	254	16	56
55	Rockefeller U.	320	266	266	0	54
56	U. KY	320	214	185	29	106
57	U. AZ	310	265	236	29	45
58	OR Health and Science U.	306	191	179	12	115
59	TX A&M U.	304	276	228	48	28
60	U. South FL, Tampa	293	131	116	15	162
61	U. TX, Austin	287	257	161	96	30
62	U. MO, Columbia	286	265	239	26	21
63	SUNY, U. Buffalo	285	222	209	13	63
64	U. Cincinnati	280	102	84	18	178
65	IA State U.	278	262	161	101	16
66	GA Institute of Technology	273	273	114	159	0
67	Brown U.	271	248	211	37	23
68	Rutgers, State U. NJ	262	249	214	35	13
69	U. IL, Chicago	254	139	131	8	115
70	U. KS	245	150	135	15	95
71	CO State U., Ft. Collins	242	225	193	32	17
72	VA Commonwealth U.	242	140	127	13	102
73	FL State U.	241	241	205	36	0
74	U. AL, Birmingham	237	130	128	2	107
75	NC State U.	231	216	154	62	15
76	TX A&M Health Science Ctr.	229	99	99	0	130
77	U. Miami	227	113	108	5	114
78	U. NM	224	168	134	34	56
79	U. GA	219	208	203	5	11
80	U. CT	217	141	117	24	76
81	U. HI, Manoa	216	198	182	16	18
82	U. TX, Health Science Ctr., Houston	216	0	0	0	216
83	U. MA, Amherst	215	213	160	53	2
84	AZ State U.	210	205	164	41	5
85	U. Houston	209	193	157	36	16
86	Wake Forest U.	206	77	77	0	129
87	Carnegie Mellon U.	200	200	152	48	0
88	U. TX, Medical Branch	200	127	126	1	73
89	VA Polytechnic Institute and State U.	200	193	118	75	7
90	WA State U.	194	174	144	30	20
91	Dartmouth C.	191	170	138	32	21
92	Medical U. SC	188	113	112	1	75
93	Tufts U.	186	183	159	24	3
94	OR State U.	179	143	132	11	36
95	Rice U.	179	179	123	56	0
96	U. TN, Knoxville	179	178	133	45	1
97	U. OK	176	136	109	27	40
98	SUNY, Stony Brook U.	172	144	129	15	28
99	Case Western Reserve U.	160	130	120	10	30
100	U. NE, Lincoln	159	146	115	31	13
101	U. of Medicine and Dentistry of NJ	158	121	121	0	37
102	U. CA, Santa Cruz	155	155	144	11	0

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

Rank	Institution	All postdoctoral appointees	Science and engineering			Health
			Total	Science	Engineering	
103	Thomas Jefferson U.	152	101	101	0	51
104	U. NE, Medical Ctr.	148	69	69	0	79
105	U. Notre Dame	147	147	95	52	0
106	U. SC	147	124	73	51	23
107	Medical C. WI	141	72	72	0	69
108	U. TX, Health Science Ctr., San Antonio	139	75	75	0	64
109	Tulane U.	138	72	69	3	66
110	TX Tech U.	136	121	92	29	15
111	U. Louisville	134	65	55	10	69
112	Wayne State U.	131	98	80	18	33
113	Georgetown U.	126	69	69	0	57
114	GA Health Sciences U.	123	112	112	0	11
115	U. DE	120	113	64	49	7
116	Brandeis U.	111	111	111	0	0
117	U. TN, Health Science Ctr.	108	65	63	2	43
118	SUNY, U. Albany	106	39	28	11	67
119	U. AR, Fayetteville	103	103	70	33	0
120	Temple U.	101	72	67	5	29
121	Northeastern U.	96	84	57	27	12
122	Rensselaer Polytechnic U., Troy	92	92	37	55	0
123	U. VT	87	69	65	4	18
124	CUNY, City C.	84	84	42	42	0
125	U. MS	82	66	63	3	16
126	WV U.	81	77	56	21	4
127	U. MD, Baltimore County	80	80	75	5	0
128	U. OR	80	80	80	0	0
129	KS State U.	74	63	63	0	11
130	Drexel U.	73	73	56	17	0
131	Woods Hole Oceanographic Institution	71	71	60	11	0
132	U. TX, Dallas	70	69	40	29	1
133	GA State U.	69	68	68	0	1
134	U. TX, Arlington	67	67	45	22	0
135	U. NV, Reno	65	65	55	10	0
136	Uniformed Services U. of the Health Sciences	64	64	64	0	0
137	U. WY	64	63	51	12	1
138	Boston C.	62	62	62	0	0
139	George Washington U.	62	62	52	10	0
140	MT State U.	62	51	48	3	11
141	U. Toledo	62	46	41	5	16
142	OK State U.	61	55	49	6	6
143	Loyola U., Chicago	59	40	40	0	19
144	U. Central FL	58	58	31	27	0
145	IL Institute of Technology	53	53	16	37	0
146	ND State U.	53	52	38	14	1
147	Albany Medical C.	49	49	49	0	0
148	Lehigh U.	49	49	24	25	0
149	Syracuse U.	49	49	45	4	0
150	Clemson U.	47	47	35	12	0
151	U. RI	47	39	32	7	8
152	U. AK, Fairbanks	44	44	40	4	0
153	CO School of Mines	43	43	17	26	0

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

Rank	Institution	All postdoctoral appointees	Science and engineering			Health
			Total	Science	Engineering	
154	San Diego State U.	43	43	35	8	0
155	U. MO, Kansas City	43	17	15	2	26
156	U. AL, Tuscaloosa	42	42	34	8	0
157	U. ID	42	42	34	8	0
158	U. North TX, Health Science Ctr.	42	0	0	0	42
159	U. Akron	41	41	19	22	0
160	FL International U.	40	39	32	7	1
161	MS State U.	40	37	17	20	3
162	Auburn U.	39	33	27	6	6
163	U. TX, San Antonio	39	39	31	8	0
164	U. PR, Rio Piedras	38	38	38	0	0
165	SD State U.	37	30	23	7	7
166	U. NH	37	37	36	1	0
167	U. North TX, Denton	37	37	26	11	0
168	Meharry Medical C.	36	36	36	0	0
169	St. Louis U.	35	34	33	1	1
170	U. MT	35	32	32	0	3
171	SUNY, Upstate Medical U.	34	19	19	0	15
172	East Carolina U.	33	32	32	0	1
173	Creighton U.	32	22	22	0	10
174	Old Dominion U.	32	30	20	10	2
175	Portland State U.	32	32	25	7	0
176	C. of William and Mary	31	31	31	0	0
177	U. AR for Medical Sciences	31	31	31	0	0
178	UT State U.	31	31	24	7	0
179	Miami U.	30	30	30	0	0
180	NY Medical C.	29	29	29	0	0
181	George Mason U.	28	28	26	2	0
182	MO U. of Science and Technology	28	28	3	25	0
183	U. NC, Charlotte	28	28	22	6	0
184	Bowling Green State U.	27	26	26	0	1
185	Jackson State U.	27	27	25	2	0
186	U. South AL	27	13	13	0	14
187	U. MA, Lowell	26	24	19	5	2
188	NC Agricultural and Technical State U.	25	25	14	11	0
189	Southern Methodist U.	25	25	23	2	0
190	U. ME	25	25	19	6	0
191	CUNY, Graduate Ctr.	24	24	24	0	0
192	SUNY, Downstate Medical Ctr.	23	23	21	2	0
193	U. NV, Las Vegas	23	23	22	1	0
194	U. PR, Medical Sciences Campus	23	11	11	0	12
195	Kent State U.	22	22	22	0	0
196	Worcester Polytechnic Institute	22	22	11	11	0
197	Oakland U.	21	21	15	6	0
198	SUNY, Binghamton U.	21	21	17	4	0
199	U. Memphis	21	21	18	3	0
200	U. Southern MS	21	21	21	0	0
201	Loma Linda U.	20	6	6	0	14
202	Marquette U.	20	19	17	2	1
203	OH U.	20	16	10	6	4
204	Stevens Institute of Technology	20	20	6	14	0
205	Brigham Young U.	19	19	18	1	0

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

Rank	Institution	All postdoctoral appointees	Science and engineering			Health
			Total	Science	Engineering	
206	Clarkson U.	19	19	9	10	0
207	Eastern VA Medical School	19	14	14	0	5
208	U. TX, El Paso	19	17	15	2	2
209	CUNY, Brooklyn C.	18	18	18	0	0
210	MI Technological U.	18	18	11	7	0
211	NJ Institute of Technology	18	18	7	11	0
212	U. AL, Huntsville	18	18	17	1	0
213	Howard U.	17	15	15	0	2
214	Rochester Institute of Technology	17	17	15	2	0
215	Rosalind Franklin U. of Medicine and Science	17	13	13	0	4
216	Wright State U.	17	17	13	4	0
217	FL A&M U.	16	3	3	0	13
218	San Francisco State U.	16	16	16	0	0
219	U. LA, Lafayette	16	12	4	8	4
220	AL State U.	15	15	15	0	0
221	CUNY, Hunter C.	15	15	15	0	0
222	ID State U.	15	13	10	3	2
223	Morehouse School of Medicine	15	15	15	0	0
224	U. MO, St. Louis	15	15	15	0	0
225	Baylor U.	14	14	14	0	0
226	NM State U.	14	14	12	2	0
227	Northeastern OH Universities, C. of Medicine	14	13	13	0	1
228	Wesleyan U.	14	14	14	0	0
229	AR State U.	13	13	13	0	0
230	Northern AZ U.	13	13	13	0	0
231	U. MA, Dartmouth	13	13	11	2	0
232	U. SD	13	13	13	0	0
233	U. Tulsa	13	13	2	11	0
234	Boise State U.	12	11	7	4	1
235	Polytechnic Institute of NY U.	12	12	5	7	0
236	SD School of Mines and Technology	12	12	2	10	0
237	U. Denver	12	12	12	0	0
238	U. ND	12	12	11	1	0
239	U. WI, Milwaukee	12	11	5	6	1
240	Clark Atlanta U.	11	11	11	0	0
241	Cleveland State U.	11	11	11	0	0
242	CUNY, C. Staten Island	11	11	11	0	0
243	CUNY, Queens C.	11	11	11	0	0
244	FL Institute of Technology	11	11	9	2	0
245	Gallaudet U.	11	11	11	0	0
246	U. NC, Greensboro	11	11	11	0	0
247	Villanova U.	11	11	2	9	0
248	Western MI U.	11	10	8	2	1
249	Duquesne U.	10	6	6	0	4
250	Southern IL U., Carbondale	10	10	10	0	0
251	U. NC, Wilmington	10	10	10	0	0
252	Catholic U. America	9	9	9	0	0
253	East TN State U.	9	9	9	0	0
254	FL Atlantic U.	9	9	5	4	0
255	TX State U., San Marcos	9	9	9	0	0
256	U. AR, Little Rock	9	9	9	0	0
257	Clark U.	8	8	8	0	0

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

Rank	Institution	All postdoctoral appointees	Science and engineering			Health
			Total	Science	Engineering	
258	Mercer U.	8	8	8	0	0
259	SUNY, C. of Optometry	8	8	8	0	0
260	TX Christian U.	8	8	8	0	0
261	U. Dayton	8	8	4	4	0
262	LA Tech U.	7	7	5	2	0
263	Morgan State U.	7	0	0	0	7
264	U. of the Sciences Philadelphia	7	4	4	0	3
265	CA State U., Los Angeles	6	6	6	0	0
266	Central MI U.	6	6	5	1	0
267	DE State U.	6	6	6	0	0
268	IL State U.	6	6	6	0	0
269	Lincoln U., Jefferson City	6	6	6	0	0
270	Marshall U.	6	6	6	0	0
271	Northern IL U.	6	6	6	0	0
272	Southern U. and A&M C.	6	6	6	0	0
273	SUNY, C. of Environmental Science and Forestry	6	6	5	1	0
274	U. NE, Omaha	6	2	2	0	4
275	U. TX, Pan American	6	6	3	3	0
276	Hampton U.	5	5	5	0	0
277	TX A&M U., Corpus Christi	5	5	5	0	0
278	U. AK, Anchorage	5	4	4	0	1
279	Wichita State U.	5	5	1	4	0
280	Fisk U.	4	4	4	0	0
281	Fordham U.	4	4	4	0	0
282	Midwestern U.	4	1	1	0	3
283	Montclair State U.	4	4	4	0	0
284	Mt. Holyoke C.	4	4	4	0	0
285	Sam Houston State U.	4	4	4	0	0
286	TN Technological U.	4	4	0	4	0
287	TX A&M U., Commerce	4	4	4	0	0
288	TX Southern U.	4	3	3	0	1
289	Trinity C., Hartford	4	4	4	0	0
290	U. PR, Mayaguez	4	4	2	2	0
291	Furman U.	3	3	3	0	0
292	NM Institute of Mining and Technology	3	3	1	2	0
293	Nova Southeastern U.	3	3	3	0	0
294	Seton Hall U.	3	3	3	0	0
295	U. of the Pacific	3	0	0	0	3
296	A. T. Still U.	2	1	1	0	1
297	Alfred U.	2	2	0	2	0
298	Bryn Mawr C.	2	2	2	0	0
299	Hofstra U.	2	2	2	0	0
300	Lawrence Technological U.	2	2	0	2	0
301	Prairie View A&M U.	2	2	1	1	0
302	Sacred Heart U.	2	0	0	0	2
303	Swarthmore C.	2	2	2	0	0
304	U. San Diego	2	2	2	0	0
305	Western WA U.	2	2	2	0	0
306	Youngstown State U.	2	2	1	1	0
307	AL A&M U.	1	1	1	0	0
308	CA State U., Fresno	1	1	1	0	0
309	Eastern NM U.	1	1	1	0	0
310	IN State U.	1	1	1	0	0

TABLE 46. Institutions ranked by number of postdoctoral appointees in science, engineering, and health, by field: 2010

Rank	Institution	All postdoctoral appointees	Science and engineering			Health
			Total	Science	Engineering	
311	Loyola Marymount U.	1	1	0	1	0
312	Ponce School of Medicine	1	1	1	0	0
313	Santa Clara U.	1	1	0	1	0
314	MO State U.	1	1	0	1	0
315	St. Joseph's U.	1	1	1	0	0
316	Universidad Central del Caribe	1	1	1	0	0
317	U. AK, Southeast	1	1	1	0	0
318	U. Northern IA	1	1	1	0	0
319	U. TX, Permian Basin	1	1	1	0	0
320	U. TX, Tyler	1	1	0	1	0
321	Valparaiso U.	1	1	1	0	0
322	West Chester U. PA	1	1	1	0	0
323	William Paterson U.	1	1	1	0	0
324	Williams C.	1	1	1	0	0

[a] Totals for "all institutions" include data imputed for nonresponding institutions; these institutions are not listed separately.

NOTES: Tied institutions are ranked alphabetically. In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 47. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, and doctoral degree type: 2010

Field	Total	U.S. citizens and permanent residents				Temporary visa holders			
		Doctoral degree[a]	Professional degree[a]	Dual degree[a]	Doctoral degree type unknown/not reported[a]	Doctoral degree[a]	Professional degree[a]	Dual degree[a]	Doctoral degree type unknown/not reported[a]
All surveyed fields	63,415	17,430	2,481	481	9,377	22,296	1,908	805	8,637
Science and engineering	44,051	12,948	495	156	6,820	16,974	545	312	5,801
Science	37,095	11,539	470	148	5,604	13,995	517	296	4,526
Agricultural sciences	1,195	399	7	1	204	425	7	3	149
Biological sciences	21,537	6,906	418	123	2,741	8,074	458	260	2,557
Anatomy	437	120	17	3	107	97	7	7	79
Biochemistry	2,533	821	9	4	330	965	17	20	367
Biology	2,555	969	14	4	330	1,004	6	3	225
Biometry/epidemiology	466	139	18	4	72	166	9	5	53
Biophysics	240	57	0	0	48	84	0	1	50
Botany	603	172	3	0	111	207	3	0	107
Cell biology	2,796	732	14	14	462	1,153	19	58	344
Ecology	238	93	1	1	63	46	0	0	34
Entomology/parasitology	233	88	1	1	40	68	1	0	34
Genetics	1,389	459	21	31	177	452	24	29	196
Microbiology/immunology/virology	2,374	794	44	15	281	875	44	22	299
Nutrition	219	77	7	0	28	70	4	1	32
Pathology	1,797	427	97	12	214	697	92	26	232
Pharmacology	1,656	479	28	12	209	616	34	36	242
Physiology	1,448	512	30	12	131	525	43	28	167
Zoology	76	42	0	0	19	11	0	0	4
Biological sciences, nec	2,477	925	114	10	119	1,038	155	24	92
Communication[b]	60	25	0	0	12	13	3	0	7
Computer sciences	748	197	3	1	112	315	3	0	117
Earth, atmospheric, and ocean sciences	1,760	527	8	0	416	618	5	2	184
Atmospheric sciences	184	47	0	0	29	97	0	2	9
Geosciences	601	195	4	0	80	239	1	0	82
Oceanography	332	165	1	0	26	130	0	0	10
Earth/atmospheric/ocean sciences, nec	643	120	3	0	281	152	4	0	83
Family and consumer sciences/ human sciences[b]	30	14	0	0	8	5	0	0	3
Mathematical sciences	756	276	1	1	113	270	2	0	93
Mathematics/applied mathematics	680	258	1	1	98	243	2	0	77
Statistics	76	18	0	0	15	27	0	0	16
Multidisciplinary/interdisciplinary studies[b]	765	132	9	1	308	180	10	0	125
Neuroscience[b]	818	246	5	14	125	266	12	26	124
Physical sciences	7,703	1,922	9	2	1,265	3,413	12	2	1,078
Astronomy	532	154	2	0	119	206	0	0	51
Chemistry	4,241	1,006	4	1	671	1,902	10	2	645
Physics	2,628	735	3	1	368	1,244	2	0	275
Physical sciences, nec	302	27	0	0	107	61	0	0	107
Psychology	1,077	598	6	2	159	273	4	2	33
Clinical psychology	123	88	2	0	24	8	1	0	0
Psychology, general	634	316	2	1	115	170	0	2	28
Psychology, nec	320	194	2	1	20	95	3	0	5
Social sciences	646	297	4	3	141	143	1	1	56
Agricultural economics	44	13	1	0	10	17	0	0	3
Anthropology (cultural/social)	83	46	1	0	18	13	0	0	5

TABLE 47. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, and doctoral degree type: 2010

Field	Total	U.S. citizens and permanent residents				Temporary visa holders			
		Doctoral degree[a]	Professional degree[a]	Dual degree[a]	Doctoral degree type unknown/not reported[a]	Doctoral degree[a]	Professional degree[a]	Dual degree[a]	Doctoral degree type unknown/not reported[a]
Economics (except agricultural)	47	10	0	0	14	10	0	0	13
Geography	62	29	0	0	17	14	0	1	1
History and philosophy of science	13	4	0	1	2	4	0	0	2
Linguistics	27	14	0	0	0	7	0	0	6
Political science	85	43	0	0	23	14	0	0	5
Sociology	81	44	1	0	20	11	0	0	5
Sociology/anthropology	0	0	0	0	0	0	0	0	0
Social sciences, nec	204	94	1	2	37	53	1	0	16
Engineering	6,956	1,409	25	8	1,216	2,979	28	16	1,275
Aerospace engineering	191	34	0	0	35	95	0	0	27
Agricultural engineering	119	28	3	0	6	62	0	0	20
Architecture[b]	10	2	0	0	3	5	0	0	0
Biomedical engineering	1,036	238	6	0	255	343	3	5	186
Chemical engineering	1,092	222	2	0	230	453	2	0	183
Civil engineering[b]	570	117	1	0	126	243	3	0	80
Electrical engineering	1,097	191	9	4	120	490	12	5	266
Engineering science	243	85	0	0	9	137	0	0	12
Industrial engineering	163	19	0	0	59	46	0	0	39
Mechanical engineering	1,009	191	2	2	167	468	7	4	168
Metallurgical/materials engineering	835	163	1	0	121	395	1	0	154
Mining engineering	6	1	0	0	0	1	0	0	4
Nuclear engineering	107	19	0	0	36	29	0	0	23
Petroleum engineering	46	10	0	2	0	31	0	0	3
Engineering, nec	432	89	1	0	49	181	0	2	110
Health	19,364	4,482	1,986	325	2,557	5,322	1,363	493	2,836
Clinical medicine	16,610	3,675	1,821	307	2,155	4,480	1,278	455	2,439
Anesthesiology	477	71	41	2	108	93	67	17	78
Cardiology	700	113	93	22	64	152	79	36	141
Endocrinology	457	88	52	10	35	144	39	32	57
Gastroenterology	320	36	56	5	50	75	24	9	65
Hematology	352	79	35	17	30	123	23	6	39
Neurology[b]	1,328	349	75	24	147	432	62	24	215
Obstetrics/gynecology	333	56	53	7	44	98	13	10	52
Oncology/cancer research	1,903	550	81	55	126	786	83	48	174
Ophthalmology	523	81	29	10	87	138	51	15	112
Otorhinolaryngology	140	36	9	3	19	42	14	8	9
Pediatrics	1,209	282	258	23	117	364	49	21	95
Preventive medicine/community health	580	196	43	5	145	139	9	3	40
Psychiatry	1,066	410	78	11	259	157	25	8	118
Pulmonary disease	287	49	74	5	49	40	17	8	45
Radiology	1,034	262	62	6	108	346	75	9	166
Surgery	1,257	179	200	6	170	276	198	38	190
Clinical medicine, nec	4,644	838	582	96	597	1,075	450	163	843
Other health	2,754	807	165	18	402	842	85	38	397
Dental sciences	358	73	45	7	28	118	36	22	29
Nursing	55	38	2	0	11	4	0	0	0
Pharmaceutical sciences	1,102	353	26	1	134	403	10	3	172

TABLE 47. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field, citizenship, and doctoral degree type: 2010

Field	Total	U.S. citizens and permanent residents				Temporary visa holders			
		Doctoral degree[a]	Professional degree[a]	Dual degree[a]	Doctoral degree type unknown/not reported[a]	Doctoral degree[a]	Professional degree[a]	Dual degree[a]	Doctoral degree type unknown/not reported[a]
Speech pathology/audiology	54	15	0	0	23	7	2	0	7
Veterinary sciences	464	125	54	5	104	106	12	9	49
Other health, nec	721	203	38	5	102	204	25	4	140

nec = not elsewhere classified.

[a] Doctoral degree = PhD, ScD, DEng, etc.; Professional degree = MD, DVM, DO, DDS, etc.; Dual degree = both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).
[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Doctoral degree type for postdocs was collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 48. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and origin of doctoral degree: 2010

Field	Total	United States[a]	Foreign country	Degree origin unknown/ not reported
All surveyed fields	63,415	19,974	16,588	26,853
Science and engineering	44,051	14,099	11,293	18,659
Science	37,095	11,897	9,856	15,342
Agricultural sciences	1,195	407	235	553
Biological sciences	21,537	6,442	6,075	9,020
Anatomy	437	92	102	243
Biochemistry	2,533	727	643	1,163
Biology	2,555	1,094	712	749
Biometry/epidemiology	466	209	89	168
Biophysics	240	43	41	156
Botany	603	104	101	398
Cell biology	2,796	780	801	1,215
Ecology	238	80	25	133
Entomology/parasitology	233	70	42	121
Genetics	1,389	368	441	580
Microbiology/immunology/virology	2,374	754	739	881
Nutrition	219	86	49	84
Pathology	1,797	443	516	838
Pharmacology	1,656	480	496	680
Physiology	1,448	496	488	464
Zoology	76	19	20	37
Biological sciences, nec	2,477	597	770	1,110
Communication[b]	60	30	8	22
Computer sciences	748	286	171	291
Earth, atmospheric, and ocean sciences	1,760	624	402	734
Atmospheric sciences	184	75	60	49
Geosciences	601	235	150	216
Oceanography	332	162	92	78
Earth/atmospheric/ocean sciences, nec	643	152	100	391
Family and consumer sciences/human sciences[b]	30	10	1	19
Mathematical sciences	756	368	135	253
Mathematics/applied mathematics	680	341	125	214
Statistics	76	27	10	39
Multidisciplinary/interdisciplinary studies[b]	765	176	99	490
Neuroscience[b]	818	243	236	339
Physical sciences	7,703	2,378	2,205	3,120
Astronomy	532	210	145	177
Chemistry	4,241	1,175	1,294	1,772
Physics	2,628	943	738	947
Physical sciences, nec	302	50	28	224
Psychology	1,077	630	201	246
Clinical psychology	123	89	5	29
Psychology, general	634	349	115	170
Psychology, nec	320	192	81	47
Social sciences	646	303	88	255
Agricultural economics	44	20	2	22
Anthropology (cultural/social)	83	40	6	37
Economics (except agricultural)	47	12	6	29
Geography	62	28	6	28
History and philosophy of science	13	5	4	4
Linguistics	27	13	5	9

TABLE 48. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and origin of doctoral degree: 2010

Field	Total	United States[a]	Foreign country	Degree origin unknown/ not reported
Political science	85	43	8	34
Sociology	81	48	7	26
Sociology/anthropology	0	0	0	0
Social sciences, nec	204	94	44	66
Engineering	6,956	2,202	1,437	3,317
Aerospace engineering	191	81	40	70
Agricultural engineering	119	38	33	48
Architecture[b]	10	2	4	4
Biomedical engineering	1,036	321	188	527
Chemical engineering	1,092	341	217	534
Civil engineering[b]	570	215	102	253
Electrical engineering	1,097	346	229	522
Engineering science	243	123	85	35
Industrial engineering	163	42	16	105
Mechanical engineering	1,009	301	234	474
Metallurgical/materials engineering	835	246	185	404
Mining engineering	6	2	0	4
Nuclear engineering	107	19	21	67
Petroleum engineering	46	19	22	5
Engineering, nec	432	106	61	265
Health	19,364	5,875	5,295	8,194
Clinical medicine	16,610	5,139	4,690	6,781
Anesthesiology	477	96	102	279
Cardiology	700	187	265	248
Endocrinology	457	152	212	93
Gastroenterology	320	88	110	122
Hematology	352	101	96	155
Neurology[b]	1,328	398	372	558
Obstetrics/gynecology	333	97	96	140
Oncology/cancer research	1,903	640	631	632
Ophthalmology	523	109	166	248
Otorhinolaryngology	140	56	58	26
Pediatrics	1,209	525	343	341
Preventive medicine/community health	580	234	107	239
Psychiatry	1,066	430	140	496
Pulmonary disease	287	125	84	78
Radiology	1,034	259	299	476
Surgery	1,257	283	406	568
Clinical medicine, nec	4,644	1,359	1,203	2,082
Other health	2,754	736	605	1,413
Dental sciences	358	85	104	169
Nursing	55	33	2	20
Pharmaceutical sciences	1,102	240	243	619

TABLE 48. Postdoctoral appointees in science, engineering, and health in all institutions, by detailed field and origin of doctoral degree: 2010

Field	Total	United States[a]	Foreign country	Degree origin unknown/ not reported
Speech pathology/audiology	54	17	6	31
Veterinary sciences	464	118	95	251
Other health, nec	721	243	155	323

nec = not elsewhere classified.

[a] United States includes Puerto Rico and U.S. territories.
[b] In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Origin of doctoral degree for postdocs was collected for first time in 2010, and any missing data in this item were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 49. Postdoctoral appointees in science, engineering, and health in all institutions, by type of doctoral degree, primary mechanism of support, and field: 2010

Type of doctoral degree and primary mechanism of support[a]	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical medicine[b]	Other health
All degree types[a]	63,415	44,051	37,095	6,956	19,364	16,610	2,754
Fellowships	5,803	3,646	3,280	366	2,157	1,894	263
Research grants	35,644	27,054	22,416	4,638	8,590	7,233	1,357
Traineeships	4,133	2,062	2,002	60	2,071	1,726	345
Other support	9,036	5,696	4,946	750	3,340	3,019	321
Not reported	8,799	5,593	4,451	1,142	3,206	2,738	468
Doctoral degree[a]	39,804	29,990	25,588	4,402	9,814	8,165	1,649
Fellowships	3,812	2,696	2,459	237	1,116	926	190
Research grants	26,855	21,049	17,554	3,495	5,806	4,789	1,017
Traineeships	2,825	1,639	1,595	44	1,186	953	233
Other support	6,108	4,408	3,824	584	1,700	1,495	205
Not reported	204	198	156	42	6	2	4
Professional degree[a]	4,395	1,041	988	53	3,354	3,104	250
Fellowships	864	88	87	1	776	734	42
Research grants	1,685	581	545	36	1,104	1,024	80
Traineeships	755	188	186	2	567	493	74
Other support	1,073	166	153	13	907	853	54
Not reported	18	18	17	1	0	0	0
Dual degree[a]	1,289	468	444	24	821	765	56
Fellowships	197	76	73	3	121	116	5
Research grants	742	304	284	20	438	392	46
Traineeships	110	20	20	0	90	88	2
Other support	239	67	66	1	172	169	3
Not reported	1	1	1	0	0	0	0
Doctoral degree type unknown/ not reported[a]	17,927	12,552	10,075	2,477	5,375	4,576	799
Fellowships	930	786	661	125	144	118	26
Research grants	6,362	5,120	4,033	1,087	1,242	1,028	214
Traineeships	443	215	201	14	228	192	36
Other support	1,616	1,055	903	152	561	502	59
Not reported	8,576	5,376	4,277	1,099	3,200	2,736	464

[a] Doctoral degree = PhD, ScD, DEng, etc.; Professional degree = MD, DVM, DO, DDS, etc.; Dual degree = both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).
[b] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

NOTES: In 2007, eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in 2007; "2007old" shows data as they would have been collected in prior years. "Communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. "Multidisciplinary/interdisciplinary studies" is also newly eligible; data may have been reported under other fields before 2007. "Neuroscience" is reported as separate field of science in 2007new; data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as separate field of engineering in 2007new; data were reported under "civil engineering" in 2007old and previous years. See appendix A in http://www.nsf.gov/statistics/nsf10307/ for more detail. Doctoral degree type and details on primary mechanism of support for postdocs were collected for first time in 2010, and any missing data in these items were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE 50. Postdoctoral appointees in science, engineering, and health, by citizenship, ethnicity, and race of U.S. citizens and permanent residents, origin of doctoral degree, and field: 2010

Characteristic	All science, engineering, and health	Science and engineering			Health		
		Total	Science	Engineering	Total	Clinical	Other health
Total	63,415	44,051	37,095	6,956	19,364	16,610	2,754
U.S. citizens and permanent residents	29,769	20,419	17,761	2,658	9,350	7,958	1,392
Hispanic or Latino	1,160	763	700	63	397	317	80
Not Hispanic or Latino							
American Indian or Alaska Native	93	59	55	4	34	25	9
Asian[b]	5,174	3,371	2,784	587	1,803	1,540	263
Black or African American	898	529	465	64	369	319	50
Native Hawaiian or Other Pacific Islander[b]	92	51	44	7	41	38	3
White	15,689	11,084	9,906	1,178	4,605	3,841	764
More than one race[b]	140	79	68	11	61	58	3
Unknown ethnicity/race	6,523	4,483	3,739	744	2,040	1,820	220
Temporary visa holders	33,646	23,632	19,334	4,298	10,014	8,652	1,362
Origin of doctoral degree[c]							
United States[d]	19,974	14,099	11,897	2,202	5,875	5,139	736
Foreign country	16,588	11,293	9,856	1,437	5,295	4,690	605
Unknown degree origin	26,853	18,659	15,342	3,317	8,194	6,781	1,413

[a] Includes postdoctoral appointees in anesthesiology, cardiology, endocrinology, gastroenterology, hematology, neurology, obstetrics/gynecology, oncology/cancer research, ophthalmology, otorhinolaryngology, pediatrics, preventive medicine/community health, psychiatry, pulmonary disease, radiology, surgery, and clinical medicine, not elsewhere classified.

[b] Reporting of ethnicity and race in 2008–10 has been affected by changes in reporting of ethnicity and race in Integrated Postsecondary Education Data System (IPEDS). Starting in 2008 IPEDS respondents were asked to use new classification that included category for two or more races (see http://nces.ed.gov/ipeds/reic/resource.asp) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. New classification was optional in 2008 and 2009 IPEDS but mandatory in 2010 and may have contributed to significant increase in reporting of "Not Hispanic or Latino, More than one race."

[c] Doctoral degree = PhD, ScD, DEng, etc.; Professional degree = MD, DVM, DO, DDS, etc.; Dual degree = both professional and doctoral degrees (MD-PhD, DVM-PhD, etc.).

[d] United States includes Puerto Rico and U.S. territories.

NOTES: In 2010, postdoc section of survey was expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc data (see appendix A for more information). Thus it is unclear how much of increase reported in 2010 represents growth in postdoctoral appointments and how much results from improved data collection. More information on changes in postdoc data will be available in forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc. Origin of doctoral degree, and ethnicity and race for postdocs were collected for first time in 2010, and any missing data in these items were not imputed in 2010 because of lack of historical data.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

Appendix A. Technical Notes

Survey Universe

The Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) is an annual census of all known U.S. academic institutions that grant master's degrees or research doctorates in science and engineering (S&E) fields or selected health fields.[1] The data collected in the 2010 GSS represent national estimates of graduate student enrollment and postdoctoral (postdoc) employment as of fall 2010.

In 2010 the survey universe consisted of 692 schools at 574 academic institutions: 481 schools at 364 doctorate-granting institutions, and 211 schools at 210 master's-granting institutions.[2] Data collected at the organizational unit level (e.g., departments, degree-granting programs, research centers, health facilities) included fields of study, and demographic and funding information for graduate students; fields of study, type of degree, demographic, and funding information for postdocs; and type of degree, and sex for other doctorate-holding nonfaculty researchers (NFRs). The 2010 survey was revised to collect postdoc data at a comparable level of detail as for the graduate student data.

Table A-1 shows the number of institutions, schools, and organizational units (e.g., departments, degree-granting programs), by degree level covered by the GSS, and shows estimated total annual enrollment in GSS-eligible fields between 1966 and 2010. Tables A-2 and A-3 show the number of units surveyed, by detailed field, in doctorate-granting and master's-granting institutions, respectively.

Revisions Affecting Survey Eligibility

No revisions affected the survey universe in 2010; revisions to the eligibility criteria for units and fields of study in 2007 and 2008 are described below.

Units. Survey procedures introduced in 2007, per design, appear to have greatly improved inclusion of eligible units and exclusion of ineligible units. In 2010 the number of unit deletions was on par with that of 2009, but the number of unit additions increased by about 40%, potentially due to the increased emphasis on postdoc and NFR data, and the inclusion of nondegree-granting units where these individuals hold positions (table 1). The dramatic increase in the number of units added and deleted in 2007–10 suggests that there was underreporting of GSS-eligible units and overreporting of ineligible units in previous survey years. See the "Technical Notes" section of the 2007 report for more detail on the changes introduced in 2007.

Table 1. Unit list modifications: 2006–10

	Year				
Activity	2006	2007	2008	2009	2010
Units at start of data collection	12,297	12,320	12,629	13,166	13,285
Units added	397	1,273	1,215	744	1,039
Units deleted	374	964	678	625	613
Units at end of data collection	12,320	12,629	13,166	13,285	13,711
Net difference	23	309	537	119	426

Fields of study and degree-granting programs. In 2007 a comprehensive review of GSS-eligible fields led to the following changes: updating the GSS-eligible, degree-granting programs from the 1990 to the 2000 Classification of Instructional Programs (CIP) taxonomy of the National Center for Education Statistics (NCES); representing degree-granting programs with a six-digit CIP specificity rather than the four-digit CIP specificity; eliminating programs that lacked a research focus, adding three new fields, and reclassifying programs and fields as needed. See the Technical Notes section of the 2007 report for more detail.

Changes Affecting Survey Comparability

Because of the adjustments to the taxonomy and other survey changes introduced in 2007, data collected since that year are not directly comparable with data from previous years. For trend analyses, the detailed statistical tables (DSTs) provide estimates of the counts that would have been collected in 2007 had the 2006 methodology been used (see "Bridge Year Calculation and Display").

Survey changes that affect comparability of the data are as follows:

- 2010: The postdoc section of the survey was greatly expanded, and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. As a result, it is unclear how much of the increase reported in 2010 represents actual growth in postdocs and how much results from improved data collection. More information on the improved data collection and changes in postdoc data will be released in a forthcoming InfoBrief, which will be available at http://www.nsf.gov /statistics/gradpostdoc/.
- 2007–10: In the 2007 survey cycle, three newly eligible fields were added, some degree-granting programs became ineligible, and others were reclassified. Tables in this report present data for 2007, the bridge year, in two ways. Data collected under the new methodology are shown as "2007new." For trend analysis, an estimate of 2007 data under the 2006 methodology is shown as "2007old."
- 1975–2006: The data are intended to represent consistent coverage of S&E and selected health fields. In 1989 the National Science Foundation (NSF) revised the coverage of S&E fields in the survey. Some fields were excluded, and the data for 1975–88 subsequently were revised to reflect this change.
- 1984–87: Data on master's-granting institutions were collected on a sample basis. Enrollment data for this period have been adjusted to account for the sampling and reflect estimated universe totals. Starting with the 1988 survey cycle, the GSS has attempted to cover all U.S. academic institutions that grant master's or doctoral degrees in S&E or selected health fields.
- 1978: Master's-granting institutions were not surveyed in 1978. Figures for 1978 total enrollment and full-time enrollment in master's-granting institutions are estimates based on 1977 and 1979 data. Doctorate-granting institutions received a short form of the GSS that collected selected data items; the short form did not request any information on sex, citizenship, or mechanisms of support.
- 1972–74: Eligibility definitions changed, affecting both S&E fields and types of institutions surveyed. These data are not comparable with data collected before 1972 or after 1974.
- 1966–71: Totals are for the NSF Graduate Traineeship program only and are not comparable with data from 1972 through 2009.

Changes in Eligibility and Degree-Granting Status

Institutions are classified as doctorate granting if at least one GSS-eligible unit confers doctoral degrees. Eight institutions changed GSS degree-granting status in 2010. The status of one institution and one school changed from eligible to ineligible, based on criteria for inclusion in the GSS (see "Survey Universe" above).

Status changed to doctorate granting from master's granting, five institutions:

- Missouri State University
- Philadelphia College of Osteopathic Medicine
- Roosevelt University
- University of West Georgia
- Xavier University

Status changed to master's granting from doctorate granting, three institutions:

- CUNY College of Staten Island
- Embry-Riddle Aeronautical University
- University of Texas at Tyler

Status changed from eligible to ineligible, two institutions/schools:

- East Central University
- Harvard Pilgrim Healthcare

Institution Name Changes and Mergers

Eight institutions reported a name change in 2010:

2009 name	2010 name
• Coppin State College	• Coppin State University
• Forest Institute of Professional Psychology	• The School of Professional Psychology at Forest Institute
• Framingham State College	• Framingham State University
• Medical College of Georgia	• Georgia Health Sciences University
• RAND Graduate School of Policy Studies	• Pardee RAND Graduate School of Policy Studies
• Russell Sage College	• The Sage Colleges
• Washburn University of Topeka	• Washburn University
• Worcester State College	• Worcester State University

Survey Instrument and Procedures

In 2010 the Web survey was the primary mode of data submission. The survey was launched in October 2010 and concluded in July 2011.

The 2010 survey consisted of two parts: Part 1, which could only be completed using the Web survey system, required the identification of organizational units ("units") within the school. Part 2 collected counts and selected characteristics of graduate students, postdocs, and NFRs. A paper worksheet was provided for preparing figures to be entered later in Part 2 of the Web survey. To assist with the transfer of information, the content and format of the paper worksheet were identical to Part 2 of the Web survey. A small number of coordinators chose to submit Part 2 using modes other than the Web survey.

The deadline for Part 1, the update of the unit list, was 17 December 2010. Schools that missed this Part 1 deadline received special attention from the survey contractor early in the survey cycle. The deadline for submitting data for Part 2 was 28 February 2011.

To respond to Part 1 and Part 2, institutions selected coordinator(s) for each school that granted a graduate degree in a GSS-eligible field. Coordinators were responsible for the following:

- Identifying all eligible units (e.g., departments, degree-granting programs, research centers, health facilities)
- Reporting GSS data or delegating reporting to unit respondents, such as department personnel or personnel in nonacademic departments (e.g., the financial aid office or the registrar's office)
- Submitting the data for all units to the survey contractor
- Providing data, by field of study, from administrative records

Revisions to Survey Instrument

The 2010 GSS collected expanded data on postdocs and NFRs as follows:

New data on postdocs:

- Postdoc definition—Respondents reporting postdoc data were asked whether the institution had a formal definition of a postdoc position and whether certain characteristics (e.g., doctorate was recently awarded) were required for their postdocs.
- Demographic data—Race and ethnicity by sex were added to augment the previously collected postdoc citizenship data. With these additions, postdoc and graduate student demographic data now correspond.
- Funding data—Primary source of support was expanded to include the detailed federal and nonfederal categories collected for full-time graduate students, and an additional "unknown or not stated" category was added. For the mechanisms of support, the category "nonfederal sources" was replaced by "other support."
- Doctoral degree type—Categories were expanded to collect whether a postdoc had a professional degree (e.g., MD, DVM), a doctoral degree (e.g., PhD, ScD), both a professional and a doctoral degree, or whether the doctoral degree type was unknown.
- Doctoral degree type by citizenship—Collected for postdocs who are U.S. citizens and permanent residents, or foreign nationals with temporary visas.
- Origin of postdocs' doctoral degrees—Categories included United States, a foreign country, or unknown.

New data on NFRs:

- Doctoral degree type by sex—Collected new doctoral degree type categories by male and female.

Revisions to Procedures

In 2010 as part of an increased emphasis on improving data for postdocs and NFRs and to assist schools in reporting the additional information about postdocs and NFRs, the survey procedures were changed to encourage institutions to appoint a separate postdoc coordinator. Historically, a single school coordinator managed the data collection for graduate students, postdocs, and NFRs. The addition of a separate postdoc coordinator offered schools the flexibility to have a student coordinator oversee data collection for graduate students and a postdoc coordinator oversee data collection for postdocs and NFRs.

Revisions to Definitions

Two new categories for doctoral degree types for the postdocs and NFRs were added in 2010:

- Doctoral Degree—Includes doctorates such as PhD, ScD, DSc, DEng, DESc, DES, DNSc, DPH, EdD, DA, DBA, DMA, DM, DSW, DDES, DPA, DPE, DCM, DHL, DIT, DME, DML, ThD, DFA, JSD, SJD, STD, JCD.
- Professional Degree—PhD-equivalent medical degrees, such as MD, DO, DVM, DDS, DNP, DPM, PharmD, PsyD, DMD, ND, DC, OD, DPT, AuD, OTD, DScPT.

Bridge-Year Data Calculation and Display

The 2007 survey changes that included modifications to the set of GSS-eligible fields are displayed in most DSTs in two ways: "2007old" and "2007new." A comparison of 2007old with 2007new data reflects differences due to the addition of the three newly added science fields and recoding of units from their 2006 fields to other fields in 2007. Data shown under 2007old provide 2007 estimates using the 2006 taxonomy, whereas 2007new and subsequent years provide data using the taxonomy introduced in 2007.

The 2007 taxonomy changes were as follows:

- "Communication," "family and consumer sciences/human sciences," and "multidisciplinary/interdisciplinary studies" were added as newly eligible fields in GSS.
- "Architecture" field was pulled out from "civil engineering" as a separate field.
- "Neuroscience" was pulled out from "neurology" as a separate field.

Response Rates

Units

From 2007–10 the method for calculating the response rates for units differed from that in prior years. Some units that were considered complete respondents are now classified as

partial respondents. As in previous years, calculations were based on responses to the survey's data collection grids as follows: graduate student and postdoc counts, by race/ethnicity; full-time graduate student and postdoc counts, by primary sources/mechanisms of support; counts of postdocs, by type of doctoral degree and primary mechanism of support; counts of postdocs, by type of doctoral degree and citizenship; counts of postdocs, by origin of doctoral degree; and counts of NFRs, by type of doctoral degree and sex. In contrast, the criteria for classifying a unit's response were more stringent:

- Units that provided complete data for all of the grids were counted as complete respondents.
- Units that provided some data but were incomplete for any of the grids were considered partial respondents.
- Units that provided no data for all grids were counted as nonrespondents.

From 2004 through 2006, a unit was considered a complete respondent if it reported complete row and column totals in the data collection grids and a partial respondent if it reported only grand totals for these grids; otherwise the unit was considered a nonrespondent. Beginning in 2007, to receive complete response status, a unit needed complete row and column totals for all grids as well as all details summing to the totals. Units that had only complete row and column totals for all grids were counted as partial respondents. As in previous years, units that reported only grand totals for all tables were counted as partial respondents. For more information about the methods used though 2003 and the change from 2003 to 2004, please see the 2004 technical notes (http://www.nsf.gov/statistics/nsf06325 /appa.htm).

As in previous years, data collection grids in the Web survey were prefilled with zeros. Prior to 2007 prefilled zeros were considered legitimate responses if the grid was visited and left with all zeros in place. Beginning in 2007, a checkbox was placed above the grids. The respondent was required to check this box to explicitly confirm zeros for the grid to distinguish the true zeros reported by the respondents from those that remained from nonresponse. Grids with a marked checkbox contributed to a complete response for the unit. Grids with unchanged, prefilled zeros and a blank checkbox disqualified the unit from complete response status.

These new response rate calculations adhere to American Association for Public Opinion Research (AAPOR) standards for computing response rates.[3]

In 2010 the GSS received complete responses from 11,703 (85.4%) of the 13,711 eligible units. An additional 1,880 units (13.7%) were partial respondents. The remaining 128 units (0.9%) were nonrespondents. Table A-4 shows the unit response rates from 1975 through 2010.

Schools

The 2010 method for calculating the school response rate was consistent with the method used from 2004 through 2009. School response rates were calculated as follows: a complete respondent if 90% or more of its units provided complete or partial data; a partial respondent if at least 50% but less than 90% of its units provided complete or partial data; and a nonrespondent if less than 50% of the units provided data. Of the 692 eligible schools, 680 schools (98.3%) were complete respondents, 7 schools (1.0%) were partial respondents, and 5 schools (0.7%) were nonrespondents.

Institutions

Institutional response rates were calculated using the same thresholds for unit response used for schools. Of the 574 eligible institutions, 564 institutions (98.3%) were complete respondents, 6 institutions (1.0%) were partial respondents, and 4 institutions (0.7%) were nonrespondents.

Retrieval and Editing

Data quality is ensured by interactive edit checks built into the Web survey and a comprehensive review after the data are submitted by the coordinator. The Web survey edits verify that the data entered are internally consistent and within an expected range often based on the previous year's data. Unit respondents are asked to explain the discrepancy whenever counts differ substantially from that of the previous year.

Postsubmission data quality checks were implemented in 2010 to identify questionable data that need further review. These quality checks were conducted when counts remained identical and also for changes to the unit list, total counts, and distribution of counts. Changes to the unit list included all unit additions and deletions and also changes to the highest degree-granted status, GSS code, and unit name. Total count changes were reviewed if they fluctuated significantly from the 2009 data, were greater than five and went to/from zero, or were more than two standard deviations away from the mean change for that total. Significant changes to the distribution of counts by race/ethnicity, gender, or primary funding type were also reviewed, as were all cases where the responses provided in any given grid were greater than five and unchanged from the previous survey cycle or identical to the data provided for a different grid or unit in the same school in the same survey cycle.

Data fluctuations that were not sufficiently explained by the comments provided by the respondents during data collection were flagged for follow-up by telephone call to the coordinator. Revisions were made directly in the Web survey by the coordinator, unit respondents, or GSS contractor staff at the direction of the coordinator. See "Known or Suspected Sources of Nonsampling Error," below, for a discussion of the types of measurement error detected in the 2010 data review and retrieval process.

Item Nonresponse and Imputation

There were 370 data items in 2010: 200 original items and 170 new items. Overall, item nonresponse rates ranged from 1.2% to 8.3%, with a mean of 5.1%. The nonresponse rates for new items were slightly higher than the rates for original items (table 2).

TABLE 2. Item nonresponse rates, overall (original and new): 2010

	Minimum	Maximum	Mean
Overall	1.2%	8.3%	5.1%
Original items	1.2%	7.4%	4.7%
New items	4.5%	8.3%	5.6%

The vast majority of the new data items collected were from new questions introduced in 2010, but a small number of data items were revised questions with different response categories and in a different format from those collected in previous survey cycles. Given

that these new data items have no historical data on which to base imputation, missing values in these data were not imputed in 2010. These data items are noted with a "_U" at the end of the variable name in the GSS public use file. For the remaining 200 data items, all missing data were imputed.

Different imputation techniques were used for extant units and new units. For units with at least 1 year of reported or imputed data, a carry-forward imputation method was used. Inflation factors were calculated for four key totals to account for year-to-year change. The previous year's key totals were then multiplied by these inflation factors to calculate the imputed values for the current year's key totals. Finally, all other variables were imputed by distributing the imputed key totals according to the previous year's proportions. The same procedure was used in the 2008 and 2009 imputations. In 2007 the carry-forward method was used only if the unit reported data within the previous 5 years. This condition was lifted in 2008 because simulations using the 2007 data revealed that the carry-forward method performed better than other methods, even if the previous data were reported more than 20 years ago.

When no reported or imputed data existed for a unit in a prior survey cycle, a different approach was needed. For new units with reported totals but no details in 2010, a nearest-neighbor imputation method was used. In this method, a donor unit that was nearest to the unit whose data were being imputed (imputee) was identified among all responding units having similar characteristics as the imputee (such as having the same GSS code and offering a Ph.D. degree). When graduate student details were being imputed, the nearest neighbor selected had full-time and part-time graduate enrollments that were most similar to the imputee's enrollments. When postdoc and NFR details were being imputed, the total number of postdocs was used to choose the nearest neighbor. The imputed values were calculated by adjusting the donor's values to account for the difference in full-time and part-time enrollment totals between the two units.

In rare circumstances when no data were available from a new unit, Integrated Postsecondary Education Data System (IPEDS) completions and enrollment data were used to estimate graduate student totals and details. This approach was instituted with the 2008 survey cycle based on research that demonstrated its superiority over a nearest-neighbor method under these conditions. Because IPEDS does not collect data on postdocs and NFR, a nearest neighbor was selected from the 2010 GSS data to estimate these counts.

Tables A-5 through A-12 show imputed data and/or imputation rates for different categories.

Known or Suspected Sources of Nonsampling Error

Review of the data, cognitive interviews, usability tests, pilot tests, site visits, and other methodological activities conducted with the institutions have pointed to several possible sources of measurement error. These situations are discussed below, along with any steps taken to minimize the impact on the data, where applicable.

Data review and telephone interviews conducted with coordinators have revealed overreporting of graduate students working toward practitioner degrees, particularly in health fields. Starting with the 2007 survey cycle, survey materials instructed that students pursuing master's, DDS, or MD degrees in 24 specified fields should be excluded. After the change in survey materials, coordinators often provided a comment explaining that they were deleting a unit because the unit's degrees were practitioner based. These comments provide some indication that the explicit instructions may have reduced reporting error. However, the data quality control process in 2009 indicated that some coordinators were still reporting graduate

students in practitioner-based degree programs. Many coordinators revised downward the total count of graduate students in fields with degree exclusions, particularly among nursing units, after being contacted about questionable data. Systematic checks for this type of measurement error ensure that coordinators are aware of the degree exclusions and are reporting data appropriately. In the 2011 survey cycle, checks will be built into the Web survey to remind respondents to exclude students pursuing practitioner-based degrees.

Data review and retrieval indicated that zeros reported by respondents sometimes represent nonresponse rather than actual zero counts. Not distinguishing between the two could result in low estimates, given that data for a given variable are not imputed when item nonresponse is misinterpreted as a zero response. In 2007, to distinguish zero-entered responses from true nonresponses, a checkbox was added for the respondent to confirm a zero entry. Although this helped to reduce substantially the number of ambiguous zero counts, counts for the subgroups still had similar problems.

In 2010 the survey instrument was revised to collect the subgroup counts directly, eliminating most instances of ambiguous zeros. The one exception was for first-time, full-time graduate students. These data were checked for ambiguous zero counts, and follow-up calls with respondents were made to clarify responses, as needed.

Methodological research, data review and retrieval, and feedback from respondents indicated that graduate students' financial support data were difficult for respondents to report and, therefore, more prone to measurement error than other survey data. Difficulties in reporting these data may occur because the information may not be stored in one centralized database; financial support may not always be channeled through the institution (e.g., self-support); and foreign sources of support may not always be known. Respondents may also have difficulty categorizing financial information by field, such as when a student is enrolled in one unit but receives support from another. Finally, institutions define mechanisms of support differently (e.g., fellowships vs. traineeships) and may report individuals according to the institution's definition rather than that provided by the GSS.

Usability tests conducted with respondents in 2008 showed that there had been some misreporting of race and ethnicity that may have been due to the format of the GSS race/ethnicity questions. The format reflected NSF's interpretation of the Office and Management and Budget's (OMB's) 1997 revision of its standards on collecting these data. In 1999, GSS began collecting data on Hispanics of one race separately from data on multiracial Hispanics, although this was not necessary for compliance with the revised OMB standards. The cognitive interviews revealed that black Hispanics and white Hispanics were sometimes counted in the "Hispanic, More than one race" category, rather than in the appropriate "Only one race, Hispanic" category. In 2008, these two Hispanic categories were collapsed into one: "Hispanic/Latino ethnicity (one or more races)." Subsequent cognitive interviews indicated that the new grouping was easier for respondents to understand.

Increasing numbers of students are choosing not to report their race to their institution, leading to growth over time in the "Unknown/race not stated" GSS category. This leads to gradual declines in the proportion of students reported in some racial and ethnic groups. This trend is not unique to GSS.

Interviews and usability tests with respondents as well as data review and retrieval efforts have found that data on postdocs and NFRs are particularly challenging for some respondents to report. Many respondents indicate in the Web survey that they are unable to provide data on their unit's postdocs or NFRs. Starting with the 2010 survey cycle, schools were given the option of appointing a separate postdoc coordinator who may be more knowledgeable about the postdocs or NFRs at their school to provide these data.

Anecdotal evidence indicated that some misreporting may have occurred when an institution had more than one coordinator or offered joint programs, although written instructions emphasized that each individual should be counted only once. To reduce double counting, facilitate inter-institution communication, and allow sharing of reported data, a screen in the Web survey provides names and contact information for all school coordinators at the institution.

Data Revisions

In 2007 the GSS discontinued the practice of revising previous years' data based on changes the institutions report in units' eligibility and institutions' doctorate-granting status in the current survey cycle. Previously, reported counts for a given year fluctuated with each annual report because the current year's eligibility and doctorate-granting status changes were applied retrospectively to all years in the DSTs. Except for table 25, counts in the 2010 DSTs for 2004–06 reflect eligibility and doctorate-granting status as of fall 2006; they have not been adjusted to reflect changes in status that may have occurred between fall 2006 and fall 2010.

Table 25 historically has listed and ranked each institution that was doctorate granting in the current survey cycle, regardless of doctoral degree–granting status or eligibility in previous years. These rules have been continued in 2010. Thus, in table 25, data in years 2004–09 are counts of graduate students in those institutions that were doctorate granting in 2010, and totals for 2004–09 in this table differ from totals for 2004–09 in other tables for doctorate-granting institutions in this report.

When requested by the institution, the GSS will replace imputed estimates with actual data, but only for the most recent survey cycle. No such requests were made in the 2010 survey cycle.

Definitions

Data collected in 2010 included demographic and funding information for graduate students, postdocs, and NFRs. Definitions of key terms follow.

Enrollment Status

Full-time and part-time—Respondents were instructed to use their institution's definition.

First-time—Students enrolled for credit in a graduate degree program in an organizational unit for the first time in fall 2010. This may include graduate students previously enrolled in another graduate degree program at the institution or at another institution. It may also include students who already hold another graduate or professional degree.

Race and Ethnicity

The GSS uses definitions of race/ethnicity that are based on the OMB's "Standards for the Classification of Federal Data on Race and Ethnicity":

Hispanic or Latino (one or more races)[4]—All individuals of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Includes individuals who are Hispanic or Latino *and* any other race(s).

Non-Hispanic/Latino—Individuals who are not Hispanic or Latino descent, regardless of race.

American Indian or Alaska Native—A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment.

Asian—A person of only one race having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent—for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

Black or African American—A person of only one race having origins in any of the black racial groups of Africa.

Native Hawaiian or Other Pacific Islander—A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands.

White—A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa.

More than one race—A person of two or more of the race categories listed above.

Unknown race/ethnicity—A person whose ethnicity or race is unknown or not stated.

The survey began collecting Asian and Native Hawaiian/Other Pacific Islander data separately in 1999; the past reports and DSTs reported the data for these groups as a combined category because less than 0.5% of graduate students have been reported in the Native Hawaiian/Other Pacific Islander category. Starting in 2010, these two categories are reported separately.

From 1999 through 2007, the survey forms collected counts of Hispanics of one race separately from counts of Hispanics reporting two or more races. However, reports and DSTs in these years combined these data in one Hispanic or Latino category because no more than 0.5% of graduate students were classified as multiracial Hispanics. In 2008 the survey forms combined these categories into a single Hispanic or Latino category.

The past reports and DSTs prior to 2010 reported the non-Hispanic/Latino multiracial category with those of unknown race as a combined category because no more than 0.2% of graduate students were identified as such. Starting in 2010, these two categories are reported separately.

Historically Black Colleges and Universities (HBCUs)

Historically black colleges and universities (HBCUs)—Institutions of higher education that have been historically considered to enroll predominantly black students. The Department of Education maintains an official list of HBCUs, which is reviewed annually.

Graduate Student Mechanisms of Financial Support

Fellowship—A competitive award (often from a national competition) given to a graduate student that requires no work of the recipient.

Traineeship—A financial award given to a graduate student selected by the institution.

Research assistantship—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to research.

Teaching assistantship—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to teaching assistant activities.

Other support—All other mechanisms of support for graduate students.

Graduate Student Source of Financial Support

Federal sources—Financial support provided by the federal agencies. Excludes federally guaranteed student loans.

Nonfederal sources—Financial support from state and local government; institutional support, such as tuition waivers and stipends, support from foreign sources, such as foreign government, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.

Self-support—Supported by loans (including federal loans) or personal or family financial contributions.

Postdoctoral Researchers (Postdocs)

Postdoc—The definition of a postdoc varies by institution. Respondents were instructed to use their institution's definition of a postdoc. NSF defines a postdoc as meeting both of the following qualifications:

1. Holds a recent doctoral degree, generally awarded within the last 5–7 years, such as
   – PhD or equivalent (e.g., ScD, DEng), or
   – First-professional degree in a medical or related field (e.g., MD, DDS, DO, DVM), or
   – Foreign degree equivalent to a U.S. doctoral degree
2. Has a limited-term appointment, generally no more than 5–7 years,
   – Primarily for training in research or scholarship, and
   – Working under the supervision of a senior scholar in a unit affiliated with the institution

Mechanisms of Financial Support for Postdocs

Fellowship—A competitive award (often from a national competition) given to a postdoc that requires no work of the recipient.

Traineeship—A financial award given to a postdoc selected by the institution.

Research grant—A financial assistance award given to an organization or an individual postdoc that supports specific research goals.

Other support—All other mechanisms of support for postdocs.

Sources of Financial Support for Postdocs

Federal sources—Financial support provided by the federal agencies.

Nonfederal sources—Financial support from state and local government; institutional support, support from foreign sources, such as foreign government, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.

Personal resources—The personal and family financial resources, including federal and other loans.

Unknown or not stated—Sources of financial support for the postdoc are unknown or cannot be determined.

Nonfaculty Researchers

Nonfaculty researchers—All doctorate-holding researchers who (1) are not considered either postdoctoral researchers or members of the faculty, and (2) are involved principally in S&E or health research activities. Also referred to as Other Doctorate-Holding Nonfaculty Researchers.

Historical Changes

Changes have been made to the coverage and content of the GSS to keep it relevant to the needs of data users. Such changes prevent precise maintenance of trend data; therefore, some data items are not available for all institutions in all years. Major changes in the data collected (with the year in which changes became effective) include the following:

Data Revisions

1988–2006	Retrospective revisions of estimates based on changes in unit eligibility began in 1988 and continued through 2006. Data for units no longer eligible were removed from counts that were originally published from 1975 through 1988, and revised estimates were produced. These changes resulted in reduction in total enrollments and social sciences enrollments for all years.
1992–2006	Starting in 1992, annual reporting revised retrospectively to reflect degree-granting status (master's or doctorate) of institution responding to current survey cycle. Over years, several master's-granting institutions became doctorate-granting institutions, and a few doctorate-granting institutions became master's-granting institutions. As consequence, enrollment data in these institutions were reclassified to reflect their degree-granting status as of most recent survey cycle. This practice was discontinued in 2007.

Demographic Characteristics

Sex

1975	Master's-granting institutions first requested to provide data on full-time graduate students by sex.
1977	Data on part-time graduate students by sex collected from master's-granting institutions for first time.

1978	Doctorate-granting institutions received short form of GSS that collected selected data items. Short form did not request any information on sex, and 1978 figures in DSTs represent estimates based on 1977 and 1979 data. Master's-granting institutions were not surveyed.
1979	Data on sex requested for all graduate students at all institutions.
1993	Began collecting race/ethnicity data on all graduate students by sex.
2008	Began collecting number of first-time, full-time male graduate students by race/ethnicity; full-time male graduate students by source of support; male postdocs by source of support; and male doctorate-holding nonfaculty researchers. Previously, number of men was inferred by subtracting number of women from total.
2010	Began collecting citizenship and race/ethnicity data on postdocs by sex.

Race/ethnicity

1979	Began collecting race/ethnicity data for full-time and part-time graduate students who were U.S. citizens as optional data item; collection of this information became official part of GSS in 1980.
1992	Began including permanent residents with counts of U.S. citizens. Beginning in 1992, race/ethnicity data collected for full-time and part-time graduate students include permanent residents.
1993	Began collecting race/ethnicity data by sex.
1999	Presented respondents with new race/ethnicity categories. "Asian/Other Pacific Islander" category used in previous years' surveys became two categories: "Asian" and "Native Hawaiian/Other Pacific Islander." Also, survey included two new categories: "More than one race Hispanic/Latino" and "More than one race non-Hispanic/Latino." 1999 survey excluded "other" category that had been included in previous years' surveys. Although new race/ethnicity categories were added in 1999, reports and DSTs combined data into previous categories because no more than 0.5% of graduate students were reported in "Native Hawaiian/Other Pacific Islander" and "More than one race" categories each year. From 1999–2009, reports and DSTs reported data on "Asian" and "Native Hawaiian/Other Pacific Islander" categories in combined "Asian/Other Pacific Islander" category; data on "One race, only Hispanic/Latino" and "More than one race, Hispanic/Latino" categories in "Hispanic" category; and data on "More than one race non-Hispanic/Latino" and "Unknown or did not state race/ethnicity" categories in combined "Other or unknown" category.
2008	Race/ethnicity categories revised to correspond to IPEDS by combining "Hispanic/Latino, One race only," and "Hispanic/Latino, More than one race," categories into "Hispanic/Latino (one or more races)."
2010	Began collecting race/ethnicity data for postdocs using same categories as in graduate students.

Citizenship

1972–79	Collected citizenship data for graduate students selectively in these years. These data are not included in data file.

1977	Began collecting citizenship data for postdocs.
1978	Doctorate-granting institutions received short form of GSS that did not collect any data on postdocs. Master's-granting institutions not surveyed.
1980	Citizenship data collected for all graduate students enrolled full-time. These data have been included in data file since 1980.
1982	Citizenship data collected for all graduate students enrolled part-time. These data have been included in data file since 1982.
1992	Definitions of foreign students and U.S. citizens changed to match those used by NCES. Starting in 1992, GSS began including permanent residents with count of U.S. citizens instead of with count of foreign students.
2008	Clarification made for "non-U.S. citizens" to exclude non-U.S. citizens residing outside United States who are enrolled in online degree program at U.S. institution.
2010	Began collecting citizenship data on postdocs using same categories as used for graduate students. In previous years, only counts of postdocs who are foreign nationals holding temporary visas were collected.

Enrollment Status

1975	Graduate institutions that granted only master's degrees asked to provide estimates for number of full- and part-time students.
1999	Began collecting data on first-time, full-time enrollment by race/ethnicity and sex; citizenship data were collected but first reported in 2000.

Graduate Student Support

1978	GSS did not collect data on mechanisms of support but did so on sources of support for full-time students. Because actual mechanisms of support were unknown, data were reported only as "other." Master's-granting institutions not surveyed.
1979	Began collecting separate data on mechanisms of support for fellowships and traineeships. (Prior years had combined these mechanisms.)
1985	Began collecting separate data on students receiving their primary support from U.S. Department of Agriculture.
1996	Began collecting separate data on students receiving their primary support from National Aeronautics and Space Administration.
1999	Began collecting separate data on students receiving their primary support from U.S. Department of Energy.
2008	Data no longer collected for National Institutes of Health (NIH) teaching assistantships because NIH does not offer financial support to graduate students through this mechanism. Began collecting number of full-time graduate students whose largest source of support came from non-U.S. source via teaching assistantship.

Postdocs and NFRs

1972	Began collecting sources and mechanisms of financial support for postdocs and/or research associates as one combined category.
1977	Began collecting information on foreign postdocs and/or research associates.
1979	Changed "research associates" to "nonfaculty research staff with doctorates" and began collecting separate data on postdocs and nonfaculty research staff. GSS also began collecting information by sex. At this time, data item "sources of support by mechanism of support" was collected only for postdocs; it was not collected for other nonfaculty research staff with doctorates.
1979	Began collecting separate data on mechanisms of support for federal fellowships and federal traineeships. (Prior years had combined these mechanisms.)
1983	Began collecting information on postdocs' medical degree status.
2010	Began collecting race/ethnicity data for postdocs who are U.S. citizens and permanent residents. Began collecting data on largest source of financial support, and largest mechanism of support separately for postdocs. Mechanism of support (fellowship, traineeship, research grant) nonfederal sources of support was replaced with "other support."
	Began collecting more detailed information on postdocs' and doctorate-holding nonfaculty researchers' doctoral degree type. Categories were added for those holding both doctoral (e.g., PhD, ScD) and professional degrees (e.g., MD, DVM) and for whom type of degree was unknown.
	Postdocs' type of degree began being collected by citizenship. Additionally, country of origin (U.S., foreign, unknown) of postdocs' doctoral degrees started being collected.
	Doctorate-holding nonfaculty researchers' type of degree began being collected by sex.

Survey Instrument

1975–77	Data for master's-granting institutions collected on abbreviated form of GSS (short form).
1978	Doctorate-granting institutions received short form of GSS, collecting selected data items; master's-granting institutions were not surveyed. Figures for 1978 for total enrollment and full-time enrollment in master's-granting institutions are estimates based on 1977 and 1979 data.
1979	All graduate institutions surveyed using same form; full-scale survey resumed.
1998	GSS made Web-based reporting system available to school coordinators and unit respondents.

Survey Universe

Institutions Surveyed

1966–71	Data collected from limited number of doctorate-granting institutions through NSF Graduate Traineeship Program. Data are not comparable with data from 1972 through 2007.

1972–74 Beginning with 1972 survey, NSF assigned this data collection effort to Universities and Nonprofit Institutions Studies Group and gradually expanded effort during 1972–74 to include all institutions known to have programs leading to doctorate or master's degree. These data are not comparable with data collected before 1972 or after 1974. NSF has not inflated data for 1966–74 to reflect universe totals.

1975 Graduate institutions that granted only master's degrees in science, engineering, and health fields asked to provide estimates for number of full- and part-time students and number of postdocs or research associates.

1975–77 Data for master's-granting institutions collected on abbreviated form of GSS (short form).

1978 Doctorate-granting institutions received short form of GSS collecting selected data items; master's-granting institutions were not surveyed. Figures for 1978 for total enrollment and full-time enrollment in master's-granting institutions are estimates based on 1977 and 1979 data.

1979 All graduate institutions surveyed using same form; full-scale survey resumed.

1984–87 Survey design changed to stratified random sample with certainty stratum that included all doctorate-granting institutions; all master's-granting, historically black colleges and universities; and all land-grant institutions. The remaining master's-granting institutions were divided into two sample strata, based on enrollment size. Enrollment data for 1984–87 have been adjusted to reflect universe totals.

1988 Surveying entire eligible survey population resumed for first time since 1983. Since 1988 GSS has attempted to cover all academic institutions that grant master's degrees or research doctorates in science, engineering, and selected health fields.

1992 Definition of medical schools revised during fall 1992 survey cycle to include only those institutional components that are members of Association of American Medical Colleges (AAMC). Tables generated after fall 1992 survey differ from their counterparts in earlier years in that they exclude schools of nursing, public health, dentistry, veterinary medicine, and other health-related disciplines and should not be compared with tables from earlier years.

2005 Because of Hurricane Katrina, data for Tulane University and Loyola University New Orleans were not included, and Louisiana State University (LSU) data are for Graduate School (Baton Rouge) and Health Sciences Center (Shreveport) only; the two New Orleans campuses of LSU were closed. Data from these schools were not available and were not imputed.

2008 Three members of AAMC added to GSS: Northeastern Ohio Universities Colleges of Medicine and Pharmacy, Universidad Central del Caribe School of Medicine, and University of Missouri–Kansas City School of Medicine.

GSS-Eligible Fields

1966–71 Data collected only for S&E fields supported by NSF from limited number of doctorate-granting institutions through NSF Graduate Traineeship Program. NSF has made no attempt to inflate data for 1966–71 to reflect universe totals.

1972–75 Beginning with 1972 survey, NSF assigned this data collection effort to Universities and Nonprofit Institutions Studies Group and gradually expanded effort during period 1972–75 to include additional S&E fields and selected

	health fields. Because of this expansion, data for 1974 and earlier years are not strictly comparable with data from 1975 and later. NSF has not inflated data for 1972–74 to reflect universe totals.
1988	NSF reviewed and tightened criteria for including departments in survey universe. NSF considered those departments that were not primarily oriented toward granting research degrees as no longer meeting definition of S&E. As a result of this review, NSF determined that several departments, especially in field of "social sciences, not elsewhere classified," were engaged primarily in training teachers, practitioners, administrators, or managers rather than researchers; consequently, NSF deleted these departments from the database. NSF continued this process throughout 1989–2006 and expanded it to ensure trend consistency for entire period from 1975 through 2006. As result of these changes, total enrollments and social sciences enrollments were reduced for all years.
2007	NSF reviewed and updated classification scheme of GSS-eligible S&E and health fields. New scheme first used in 2007 survey cycle. Three newly eligible fields were added, some degree-granting programs became ineligible, and others were reclassified. Practitioner-based fields deemed ineligible.

Data Availability

NSF's National Center for Science and Engineering Statistics (NCSES) releases the data from this survey annually in its *Graduate Students and Postdoctorates in Science and Engineering* InfoBrief and DSTs series. The information from this survey is also included in the publications *Science and Engineering Indicators* and *Women, Minorities, and Persons with Disabilities in Science and Engineering*. NSF includes selected data items from this survey for individual doctorate-granting institutions in the *NCSES Academic Institutional Profiles* series (http://www.nsf.gov/statistics/profiles/).

Data from this survey are available through the WebCASPAR data system (https://webcaspar.nsf.gov/). Public-use data files in Excel, SAS, and SPSS formats and the guide to the public-use data files are available for the years 1972–2010 at http://www.nsf.gov/statistics/srvygradpostdoc/pub_data.cfm.

Changes in the Detailed Statistical Tables

The published tables on graduate students were reduced from 73 tables in 2009 to 26 tables in 2010. The unpublished tables are available on request. The 3 tables on postdocs in the 2009 report were expanded to 24 tables in the 2010 report to provide similar details on the postdocs as the graduate students. The complete list of tables produced in 2010 is shown in exhibit 1. The published tables are designated by table number in the first column. The remaining tabulations, designated as "supplemental table," are available on request from the GSS Project Officer.

EXHIBIT 1. Publiished tables, crosswalk to prior-year tables, and supplemental tabulations available for the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering

2010 GSS published table	Prior-year crosswalk and supplemental data table	Table title
		Graduate students in science, engineering, and health
1	1	Graduate students in science, engineering, and health, by field: 1975–2010
2	2	Graduate students in science, by science fields: 1975–2010
3	3	Graduate students in engineering, by engineering fields: 1975–2010
	S-4	Male graduate students in science, engineering, and health, by field: 1977–2010
	S-5	Male graduate students in science, by science fields: 1977–2010
	S-6	Male graduate students in engineering, by engineering fields: 1977–2010
4	7	Female graduate students in science, engineering, and health, by field: 1977–2010
	S-8	Female graduate students in science, by science fields: 1977–2010
	S-9	Female graduate students in engineering, by engineering fields: 1977–2010
		Full-time graduate students, by field
5	10	Full-time graduate students in science, engineering, and health, by field: 1975–2010
	S-11	Full-time graduate students in science, by science fields: 1975–2010
	S-12	Full-time graduate students in engineering, by engineering fields: 1975–2010
	S-13	Male, full-time graduate students in science, engineering, and health, by field: 1977–2010
	S-14	Male, full-time graduate students in science, by science fields: 1977–2010
	S-15	Male, full-time graduate students in engineering, by engineering fields: 1977–2010
6	16	Female, full-time graduate students in science, engineering, and health, by field: 1977–2010
	S-17	Female, full-time graduate students in science, by science fields: 1977–2010
	S-18	Female, full-time graduate students in engineering, by engineering fields: 1977–2010
7	19	U.S. citizen and permanent resident full-time students in science, engineering, and health, by field: 1980–2010
	S-20	U.S. citizen and permanent resident full-time graduate students in science, by science fields: 1980–2010
	S-21	U.S. citizen and permanent resident full-time graduate students in engineering, by engineering fields: 1980–2010
8	22	Full-time graduate students with temporary visas, by field: 1980–2010
	S-23	Full-time graduate students with temporary visas in science, by science fields: 1980–2010
	S-24	Full-time graduate students with temporary visas in engineering, by engineering fields: 1980–2010
		Graduate students in science, engineering, and health in all institutions: 2004–10
9	25	Graduate students, by detailed field
	S-26	Male graduate students, by detailed field
10	27	Female graduate students, by detailed field
	S-28	Graduate students in public institutions, by detailed field
	S-29	Graduate students in private institutions, by detailed field
11	33	Full-time graduate students, by detailed field
	S-34	Male, full-time graduate students, by detailed field
	S-35	Female, full-time graduate students, by detailed field
	S-36	Full-time graduate students with temporary visas, by detailed field
12	42	First-time, full-time graduate students, by detailed field
	S-43	First-time, full-time U.S. citizen and permanent resident graduate students, by detailed field
	S-44	First-time, full-time graduate students with temporary visas, by detailed field
	S-45	First-time, full-time graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
13	30	Graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
	S-31	Male graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
14	32	Female graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
15	37	Full-time graduate students, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
	S-38	Full-time graduate students, by field and primary source of support
	S-39	Full-time graduate students, by field and primary mechanism of support
	S-40	Full-time graduate students in science and engineering fields, by primary mechanism and primary source of support
	S-41	Full-time graduate students in health fields, by primary mechanism and primary source of support
		Graduate students in science, engineering, and health in doctorate-granting institutions: 2004–10
16	51	Graduate students, by detailed field
17	52	Graduate students in public doctorate-granting institutions, by detailed field

EXHIBIT 1. Publiished tables, crosswalk to prior-year tables, and supplemental tabulations available for the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering

2010 GSS published table	Prior-year crosswalk and supplemental data table	Table title
	S-53	Graduate students in private doctorate-granting institutions, by detailed field
18	54	Graduate students, by enrollment status, citizenship, ethnicity, and race of U.S. citizens and permanent residents
	S-55	Graduate students in health fields, by enrollment status, citizenship, ethnicity, and race of U.S. citizens and permanent residents
	S-56	Graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010
	S-57	Full-time graduate students, by detailed field
	S-58	U.S. citizen and permanent resident full-time graduate students, by detailed field
	S-59	Full-time graduate students with temporary visas, by detailed field
19	60	Full-time graduate students, by field and primary source of support
	S-61	Full-time graduate students, by sex, primary source of support, and field: 2010
	S-62	Full-time graduate students in science fields in doctorate-granting institutions, by sex, primary source of support, and field: 2010
	S-63	Full-time graduate students in engineering fields in doctorate-granting institutions, by sex, primary source of support, and field: 2010
20	64	Full-time graduate students, by field and primary mechanism of support
	S-65	Full-time graduate students, by detailed field and primary mechanism of support: 2010
	S-66	Full-time graduate students in science and engineering fields in doctorate-granting institutions, by primary mechanism and primary source of support
	S-67	Full-time graduate students in health fields in doctorate-granting institutions, by primary mechanism and primary source of support
		Graduate students in science, engineering, and health in all institutions: 2010
21	46	Graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
	S-47	Male graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
22	48	Female graduate students, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
23	49	Graduate students in science, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents
24	50	Graduate students in engineering, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents
		Institutional rankings: 2004–10
25	68	by 2010 graduate student total in science, engineering, and health
		Graduate students in historically black colleges and universities (HBCUs)
	S-73	Graduate students in science, engineering, and health fields in historically black colleges and universities, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents: 2010
	S-74	Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and in historically black colleges and universities, by field: 2004–10
	S-75	Black, non-Hispanic U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and in historically black colleges and universities, by field and sex: 2006–10
	S-76	Black, non-Hispanic U.S. citizen and permanent resident full-time graduate students in science, engineering, and health fields in all institutions and in historically black colleges and universities, by field: 2004–10
26	77	by field and sex: 2006–2010
		Postdoctoral appointees in all institutions: all available years
27	*new*	Postdoctoral appointees in science, engineering, and health, by field: 1979–2010
28	*new*	Postdoctoral appointees in science, by science fields: 1979–2010
29	*new*	Postdoctoral appointees in engineering, by engineering fields: 1979–2010
	S-78	Male postdoctoral appointees in science, engineering, and health, by field: 1979–2010
	S-79	Male postdoctoral appointees in science, by field: 1979–2010
	S-80	Male postdoctoral appointees in engineering, by field: 1979–2010
30	*new*	Female postdoctoral appointees in science, engineering, and health, by field: 1979–2010
	S-81	Female postdoctoral appointees in science, by field: 1979–2010
	S-82	Female postdoctoral appointees in engineering, by field: 1979–2010
	S-83	U.S. citizen and permanent resident postdoctoral appointees in science, engineering, and health, by field: 1980–2010
	S-84	U.S. citizen and permanent resident postdoctoral appointees in science, by field: 1980–2010
	S-85	U.S. citizen and permanent resident postdoctoral appointees in engineering, by field: 1980–2010
31	*new*	Postdoctoral appointees with temporary visas in science, engineering, and health, by field: 1979–2010
	S-86	Postdoctoral appointees with temporary visas in science, by field: 1980–2010
	S-87	Postdoctoral appointees with temporary visas in engineering, by field: 1980–2010
		Postdoctoral appointees in science, engineering, and health in all institutions: 2004–10
32	69	Postdoctoral appointees, by detailed field

EXHIBIT 1. Publiished tables, crosswalk to prior-year tables, and supplemental tabulations available for the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering

2010 GSS published table	Prior-year crosswalk and supplemental data table	Table title
	S-88	Male postdoctoral appointees in science, engineering, and health, by detailed field: 2004–10
33	*new*	Female postdoctoral appointees, by detailed field
34	*new*	Postdoctoral appointees, by field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
35	*new*	Postdoctoral appointees in public institutions, by detailed field
36	*new*	Postdoctoral appointees in private institutions, by detailed field
37	*new*	Postdoctoral appointees, by field and primary source of support
		Postdoctoral appointees in science, engineering, and health in all institutions: 2010
38	70	Postdoctoral appointees, by detailed field, sex, and citizenship
39	70	Postdoctoral appointees, by detailed field and primary source of support
40	*new*	Postdoctoral appointees, by detailed field and primary mechanism of support
41	*new*	Postdoctoral appointees, by field, primary source of support, and primary mechanism of support
42	*new*	Postdoctoral appointees, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
	S-89	Male postdoctoral appointees, by detailed field, citizenship, ethnicity and race of U.S. citizens and permanent residents
43	*new*	Female postdoctoral appointees, by detailed field, citizenship, ethnicity, and race of U.S. citizens and permanent residents
44	*new*	Postdoctoral appointees in science, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents
45	*new*	Postdoctoral appointees in engineering, by region, state, institution, citizenship, ethnicity, and race of U.S. citizens and permanent residents
		Institutional rankings: 2010
46	71	by number of postdoctoral appointees in science, engineering, and health, by field
		Postdoctoral appointees in science, engineering, and health in all institutions: 2010
47	*new*	Postdoctoral appointees, by detailed field, citizenship, and doctoral degree
48	*new*	Postdoctoral appointees, by detailed field and origin of doctoral degree
49	*new*	Postdoctoral appointees, by type of doctoral degree, primary mechanism of support, and field
50	*new*	Postdoctoral appointees, by citizenship, ethnicity, and race of U.S. citizens and permanent residents, origin of doctoral degree, and field
	S-90	Postdoctoral appointees, by detailed field and doctorate degree type
	S-91	Postdoctoral appointees, by sex, primary mechanism of support, and field
	S-92	Postdoctoral appointees in science fields, by sex, primary mechanism of support, and field
	S-93	Postdoctoral appointees in engineering fields, by sex, primary mechanism of support, and field
	S-94	Postdoctoral appointees in health fields, by region, state, institution, and citizenship, and by ethnicity and race of U.S. citizens and permanent residents
	S-95	Postdoctoral appointees, by region, state, institution, and citizenship, and by ethnicity and race of U.S. citizens and permanent residents
		Nonfaculty researchers in all institutions: all available years
	S-96	Nonfaculty researchers in science, engineering, and health fields, by field: 1979–2010
	S-97	Nonfaculty researchers in science fields, by field: 1979–2010
	S-98	Nonfaculty researchers in engineering fields, by field: 1979–2010
	S-99	Male nonfaculty researchers in science, engineering, and health fields, by field: 1979–2010
	S-100	Male nonfaculty researchers in science fields, by field: 1979–2010
	S-101	Male nonfaculty researchers in engineering fields, by field: 1979–2010
	S-102	Female nonfaculty researchers in science, engineering, and health fields, by field: 1979–2010
	S-103	Female nonfaculty researchers in science fields, by field: 1979–2010
	S-104	Female nonfaculty researchers in engineering fields, by field: 1979–2010
	S-72	Nonfaculty researchers in science, engineering, and health fields, by detailed field: 2004–10
	S-105	Male nonfaculty researchers in science, engineering, and health fields, by detailed field: 2004–10
	S-106	Female nonfaculty researchers in science, engineering, and health fields, by detailed field: 2004–10
	S-107	Nonfaculty researchers in science, engineering, and health fields in public institutions, by detailed field: 2004–10
	S-108	Nonfaculty researchers in science, engineering, and health fields in private institutions, by detailed field: 2004–10
	S-109	Nonfaculty researchers in science, engineering, and health fields in doctorate-granting institutions, by detailed field, and sex: 2010
	S-110	Nonfaculty researchers in science, engineering, and health fields, by detailed field and doctorate degree type: 2010
	S-111	Nonfaculty researchers in science, engineering, and health fields, by region, state, and institution: 2010
	S-112	Institutions ranked by number of nonfaculty researchers, by field: 2010

NOTES: Prior-year numbering for tables published in this report are in boldface. Tables designated by "S" are available on request from project officer.

The postdoc data items collected in 2010 included same or similar data items in 2009; however, these postdoc items were reformatted in some way as part of the questionnaire redesign. For example, in the past, the degree-type question simply asked the respondents, "Of the total [postdoc count], how many have an MD, DO, DDS, or DVM?" In 2010, the question was expanded and asked the respondents to report the counts of postdocs by type of doctoral degree in the following categories: "Professional degree (MD, DVM, DO, DDS)," "Doctoral degree (PhD, ScD, DEng)," "Both professional and doctoral degree (MD-PhD, DVM-PhD)," and "Doctoral degree type unknown." Also, any missing data in the new postdoc and NFR items were not imputed in 2010 owing to the lack of historical data, and they were included in "Unknown/Not Reported" category in the data tables.

Therefore, the 2010 data may not be directly comparable with prior year data because it is unclear how much change in 2010 resulted from the redesigned questions. More information on the changes in postdoc data will be available in a forthcoming InfoBrief at http://www.nsf.gov/statistics/gradpostdoc.

Notes

[1] The research doctorate is a research degree that (1) requires an original contribution of knowledge to a field (typically, but not always, in the form of a written dissertation), and (2) is not primarily intended for the practice of a profession. For additional survey information and available data related to graduate student enrollment and postdocs in S&E, see http://www.nsf.gov/statistics/srvygradpostdoc/.

[2] In this report, the term *school* refers to a graduate school, medical school, dental school, nursing school, or school of public health; an affiliated research center; a branch campus; or any other organizational component within an academic institution that grants an S&E or selected health degree.

[3] See response rate 3 calculation, page 45, in AAPOR. 2011. Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys. 7th ed. AAPOR.

[4] The OMB standards designate Hispanics as an ethnic group rather than a racial group. Following these standards, Hispanic is not counted as a race in GSS. Cognitive interviews with respondents have shown that this is a source of considerable confusion. For example, black Hispanics and white Hispanics may be counted as "Hispanic, More than one race" rather than "Only one race, Hispanic." The race/ethnicity categories were aligned to IPEDS by combining the "Hispanic/Latino, More than one race," and "Hispanic/Latino, One race only," categories. In 2008 these two Hispanic categories were collapsed into one: "Hispanic/Latino ethnicity (one or more races)."

Technical Tables

	Table Title
A-1	NSF data collection series: 1966–2010
	Science, engineering, and health organizational units
A-2	in doctorate-granting institutions, by detailed field: 2004–10
A-3	in master's-granting institutions, by detailed field: 2004–10
A-4	response rates:1975–2010
	Imputation, by field and graduate enrollment or postdoctoral status: 2008–10
A-5	for nonresponse in doctorate-granting institutions
A-6	for nonresponse in master's-granting institutions
	Imputation rates for graduate students and postdoctoral appointees in surveyed fields: 2010
A-7	full-time graduate students, by source and mechanism of support
A-8	graduate students, by citizenship, race/ethnicity, enrollment status, and sex
A-9	postdoctoral appointees and nonfaculty researchers
	Imputed graduate students and postdoctoral appointees in surveyed fields: 2010
A-10	full-time graduate students, by source and mechanism of support
A-11	graduate students, by citizenship, race/ethnicity, enrollment status, and sex
A-12	postdoctoral appointees and nonfaculty researchers

TABLE A-1. The NSF data collection series: 1966–2010

Year	Institutions surveyed	Schools surveyed[a]	Organizational units surveyed			Graduate enrollment in surveyed fields		
			Total	Master's	Doctorate	Total	Full time	Part time
Graduate Traineeship Program								
1966	204	204	2,866	441	2,425	169,303	124,255	45,048
1967	209	209	3,014	434	2,580	179,622	133,972	45,650
1968	219	219	3,190	454	2,736	184,759	140,714	44,045
1969	224	224	3,354	460	2,894	196,341	147,515	48,826
1970	227	227	3,544	473	3,071	201,918	153,250	48,668
1971[b]	224	224	3,397	407	2,990	214,680	164,764	49,916
Doctorate institutions								
1972	252	321	4,568	764	3,804	207,859	159,392	48,467
1973	255	333	6,523	851	5,672	214,348	161,525	52,823
1974	276	367	7,468	1,387	6,081	259,968	190,562	69,406
1975	345	443	8,031	1,857	6,174	301,902	209,328	92,574
1976	355	454	8,131	1,916	6,215	305,824	213,033	92,791
1977	357	460	8,361	2,050	6,311	313,938	215,377	98,561
1978	345	454	8,381	1,998	6,383	308,107	211,508	96,599
1979	371	487	8,612	2,130	6,482	323,677	219,634	104,043
1980	370	486	8,714	2,174	6,540	333,164	225,877	107,287
1981	370	484	8,645	2,174	6,471	339,946	229,708	110,238
1982	369	484	8,504	2,162	6,342	346,668	232,980	113,688
1983	370	485	8,386	2,133	6,253	354,060	239,220	114,840
1984	345	464	8,320	2,033	6,287	353,673	239,400	114,273
1985	345	459	8,434	2,074	6,360	362,581	242,748	119,833
1986	345	461	8,509	2,083	6,426	373,545	251,562	121,983
1987	349	467	8,626	2,087	6,539	378,785	255,936	122,849
1988	375	494	8,949	2,250	6,699	386,300	262,351	123,949
1989	378	497	9,084	2,276	6,808	394,510	269,679	124,831
1990	377	496	9,234	2,332	6,902	409,419	278,637	130,782
1991	377	496	9,435	2,362	7,073	425,914	291,508	134,406
1992	377	496	9,678	2,417	7,261	445,704	305,979	139,725
1993	377	496	9,875	2,434	7,441	454,745	312,519	142,226
1994	376	495	10,093	2,499	7,594	455,332	313,976	141,356
1995	375	494	10,269	2,552	7,717	449,555	310,538	139,017
1996	376	495	10,289	2,608	7,681	444,319	309,418	134,901
1997	375	498	10,271	2,688	7,583	438,135	307,697	130,438
1998	375	497	10,366	2,713	7,653	435,826	307,040	128,786
1999	376	498	10,482	2,683	7,799	443,104	313,866	129,238
2000	375	497	10,526	2,726	7,800	443,542	319,923	123,619
2001	379	500	10,577	2,728	7,849	459,438	332,732	126,706
2002	374	495	10,726	2,778	7,948	487,645	355,611	132,034
2003	374	495	10,849	2,790	8,059	510,335	372,366	137,969
2004	374	495	10,858	2,781	8,077	518,641	377,984	140,657
2005	374	494	11,004	2,758	8,246	527,048	381,198	145,850
2006	374	495	10,946	2,745	8,201	542,073	393,138	148,935
2007old[c]	375	493	10,976	2,830	8,146	551,832	403,722	148,110
2007new[c]	375	493	11,210	2,949	8,261	561,352	409,421	151,931
2008	376	505	11,773	3,042	8,731	574,241	422,287	151,954
2009	366	493	11,865	2,956	8,909	573,883	428,856	145,027
2010	364	481	12,276	3,023	9,253	575,785	433,252	142,533
Master's institutions								
1975[d]	239	239	972	972	na	26,608	10,320	16,288
1976	239	239	979	979	na	27,892	10,379	17,513
1977	244	244	1,031	1,031	na	31,436	11,361	20,075

TABLE A-1. The NSF data collection series: 1966–2010

Year	Institutions surveyed	Schools surveyed[a]	Organizational units surveyed			Graduate enrollment in surveyed fields		
			Total	Master's	Doctorate	Total	Full time	Part time
1978[e]	254	254	1,128	1,128	na	31,805	11,522	20,283
1979	258	258	1,074	1,074	na	33,901	12,126	21,775
1980	256	256	1,084	1,084	na	33,914	12,539	21,375
1981	252	252	1,083	1,083	na	35,184	12,341	22,843
1982	240	240	1,080	1,080	na	35,623	11,777	23,846
1983	238	238	1,081	1,081	na	36,372	12,797	23,575
1984	66	66	471	471	na	40,997	14,522	26,475
1985	66	66	477	477	na	41,440	14,539	26,901
1986	66	66	476	476	na	41,975	14,606	27,369
1987	66	66	478	478	na	42,712	15,120	27,592
1988	229	229	1,066	1,066	na	38,223	12,776	25,447
1989	229	229	1,103	1,103	na	39,968	12,969	26,999
1990	231	231	1,124	1,124	na	42,694	14,145	28,549
1991	230	230	1,163	1,163	na	45,298	15,502	29,796
1992	229	229	1,194	1,194	na	47,818	16,576	31,242
1993	227	227	1,228	1,228	na	49,559	17,125	32,434
1994	227	227	1,272	1,272	na	49,067	18,112	30,955
1995	226	226	1,297	1,297	na	50,085	18,745	31,340
1996	225	225	1,290	1,290	na	49,760	19,118	30,642
1997	224	224	1,318	1,318	na	49,073	19,592	29,481
1998	224	224	1,319	1,319	na	49,801	20,349	29,452
1999	221	221	1,345	1,345	na	50,152	20,557	29,595
2000	219	219	1,368	1,368	na	49,769	21,360	28,409
2001	220	220	1,385	1,385	na	50,169	21,790	28,379
2002	220	220	1,400	1,400	na	52,759	23,380	29,379
2003	217	217	1,412	1,412	na	56,786	25,054	31,732
2004	215	215	1,410	1,410	na	55,822	24,589	31,233
2005	214	214	1,391	1,391	na	55,178	25,422	29,756
2006	212	212	1,374	1,374	na	55,570	25,877	29,693
2007old[c]	207	207	1,349	1,349	na	55,991	27,138	28,853
2007new[c]	207	207	1,419	1,419	na	58,147	27,944	30,203
2008	203	203	1,393	1,393	na	57,248	27,326	29,922
2009	209	210	1,420	1,420	na	57,762	27,259	30,503
2010	210	211	1,435	1,435	na	56,867	27,933	28,934

na = not applicable.

[a] Schools are administrative and degree-granting entities within academic institutions. Schools surveyed may exceed institutions surveyed because schools at some institutions report information to survey separately. Examples of schools eligible for GSS include graduate schools, schools of architecture, schools of medicine, schools of nursing, schools of pharmacology, schools of public health, and schools of veterinary medicine.

[b] 1972 survey also collected selected data for 1971.

[c] In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. See appendix A, "Technical Notes," for further details and specific field changes.

[d] 1976 survey also collected 1975 data from master's-granting institutions.

[e] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

NOTES: Data from 1966 to 1974 are not directly comparable with data from 1975 forward due to changes both in science and engineering fields and in types of institutions covered in survey. In 2007, newly eligible science fields were added.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-2. Science, engineering, and health organizational units in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005[a]	2006	2007old[b]	2007new[b]	2008	2009	2010
All surveyed fields	10,858	11,004	10,946	10,976	11,210	11,773	11,865	12,276
Science and engineering	7,870	7,990	7,993	8,235	8,516	9,008	9,191	9,482
Science	6,308	6,402	6,397	6,571	6,840	7,272	7,435	7,661
Agricultural sciences	377	389	383	388	393	438	453	445
Biological sciences	2,050	2,090	2,083	2,101	2,092	2,175	2,227	2,279
Anatomy	75	74	70	67	65	60	59	58
Biochemistry	181	184	181	183	178	182	183	185
Biology	268	269	275	271	260	273	274	269
Biometry/epidemiology	93	95	95	105	117	126	136	149
Biophysics	34	35	36	37	35	35	36	38
Botany	71	72	71	69	67	67	68	67
Cell/molecular biology	159	166	177	180	181	192	205	216
Ecology	45	45	46	51	47	44	41	42
Entomology/parasitology	42	40	40	39	39	42	40	40
Genetics	97	102	98	101	102	106	108	108
Microbiology/immunology/virology	248	246	237	234	225	229	225	222
Nutrition	127	131	131	128	120	121	121	124
Pathology	125	123	118	107	106	113	116	117
Pharmacology	156	155	152	151	150	154	158	160
Physiology	123	123	120	123	139	160	163	160
Zoology	29	29	27	27	27	22	20	18
Biological sciences, nec	177	201	209	228	234	249	274	306
Communication[b]	ne	ne	ne	ne	119	142	156	167
Computer sciences	382	391	394	409	401	417	422	439
Earth, atmospheric, and ocean sciences	373	376	375	382	374	387	388	407
Atmospheric sciences	35	36	33	38	40	42	42	51
Geosciences	207	208	205	208	206	212	215	211
Ocean sciences	57	56	57	59	57	59	59	65
Earth/atmospheric/ocean sciences, nec	74	76	80	77	71	74	72	80
Family and consumer sciences/human sciences[b]	ne	ne	ne	ne	61	71	81	87
Mathematical sciences	412	419	419	424	418	447	450	450
Mathematics/applied mathematics	322	327	327	329	321	338	339	335
Statistics	90	92	92	95	97	109	111	115
Multidisciplinary/interdisciplinary studies[b]	ne	ne	ne	ne	117	191	226	302
Neuroscience[b]	na	na	na	na	44	63	84	107
Physical sciences	595	604	606	610	608	627	640	664
Astronomy	39	41	41	43	43	46	46	49
Chemistry	281	285	288	289	289	294	297	295
Physics	250	251	250	251	252	260	262	270
Physical sciences, nec	25	27	27	27	24	27	35	50
Psychology	645	642	643	669	657	685	662	657
Clinical psychology	143	141	145	143	143	145	151	149
Psychology, general	191	192	192	191	188	194	189	180
Psychology, nec	311	309	306	335	326	346	322	328
Social sciences	1,474	1,491	1,494	1,588	1,556	1,629	1,646	1,657
Agricultural economics	57	57	57	56	54	53	55	52
Anthropology (cultural/social)	138	141	142	147	148	151	155	155
Economics	198	195	194	194	198	215	218	215
Geography	107	105	105	105	105	111	113	114
History and philosophy of science	27	31	33	33	30	32	30	25
Linguistics	74	73	75	79	74	80	80	79
Political science/public administration	379	381	379	397	390	387	389	396
Sociology	184	184	181	185	183	194	200	203

TABLE A-2. Science, engineering, and health organizational units in doctorate-granting institutions, by detailed field: 2004–10

Field	2004	2005[a]	2006	2007old[b]	2007new[b]	2008	2009	2010
Sociology/anthropology	24	24	22	22	20	17	16	12
Social sciences, nec	286	300	306	370	354	389	390	406
Engineering	1,562	1,588	1,596	1,664	1,676	1,736	1,756	1,821
Aerospace engineering	54	55	57	58	58	56	58	62
Agricultural engineering	38	36	38	38	38	37	36	36
Architecture[b]	na	na	na	na	58	79	82	83
Biomedical engineering	97	101	110	116	117	128	137	143
Chemical engineering	146	148	147	149	149	150	148	148
Civil engineering[b]	267	272	269	290	243	247	251	257
Electrical engineering	259	266	261	271	270	272	265	266
Engineering science/engineering physics	38	38	38	37	37	40	43	47
Industrial/manufacturing engineering	172	172	169	172	170	168	157	161
Mechanical engineering	190	191	190	196	196	198	203	210
Metallurgical/materials engineering	113	113	115	117	119	125	129	129
Mining engineering	22	22	21	19	18	18	18	19
Nuclear engineering	23	23	23	26	24	25	25	26
Petroleum engineering	18	18	19	19	19	18	17	18
Engineering, nec	125	133	139	156	160	175	187	216
Health	2,988	3,014	2,953	2,741	2,694	2,765	2,674	2,794
Clinical medicine	2,000	2,001	1,937	1,739	1,693	1,767	1,757	1,888
Anesthesiology	88	88	88	72	72	68	65	64
Cardiology	62	60	56	46	46	54	52	57
Endocrinology	60	58	56	49	50	53	51	53
Gastroenterology	60	56	53	46	45	45	44	50
Hematology	60	57	53	43	43	42	41	41
Neurology[b]	172	175	178	177	127	122	117	112
Obstetrics/gynecology	84	84	83	68	67	68	69	72
Oncology/cancer research	90	94	94	91	91	94	101	110
Ophthalmology	73	72	69	57	56	55	58	63
Otorhinolaryngology	56	55	55	45	46	44	44	45
Pediatrics	105	103	95	86	86	84	85	100
Preventive medicine/community health	200	206	204	213	219	239	244	276
Psychiatry	101	101	99	84	81	81	75	83
Pulmonary disease	56	54	51	42	42	45	46	43
Radiology	116	118	112	98	97	100	106	110
Surgery	225	222	206	176	173	171	168	172
Clinical medicine, nec	392	398	385	346	352	402	391	437
Other health	988	1,013	1,016	1,002	1,001	998	917	906
Dental sciences	76	79	79	86	93	92	98	100
Nursing	191	197	197	178	178	171	149	131
Pharmaceutical sciences	94	93	93	91	95	103	105	107
Communication disorders sciences	168	168	167	169	170	166	154	151
Veterinary sciences	72	79	79	73	86	84	86	96
Other health, nec	387	397	401	405	379	382	325	321

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] Includes organizational units at schools closed because of Hurricane Katrina.

[b] In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; these data may have been reported under other fields before 2007. "Neuroscience" is reported as a separate field of science in 2007new; these data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as a separate field of engineering in 2007new; these data were reported under "civil engineering" in 2007old and previous years. See appendix A, "Technical Notes," for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-3. Science, engineering, and health organizational units in master's-granting institutions, by detailed field: 2004–10

Field	2004	2005[a]	2006	2007old[b]	2007new[b]	2008	2009	2010
All surveyed fields	1,410	1,391	1,374	1,349	1,419	1,393	1,420	1,435
Science and engineering	1,153	1,133	1,120	1,132	1,206	1,208	1,246	1,272
Science	969	960	942	962	1,032	1,029	1,058	1,090
Agricultural sciences	33	35	32	39	39	43	45	46
Biological sciences	157	157	159	162	163	159	167	181
Anatomy	0	0	0	0	0	0	0	0
Biochemistry	4	4	4	4	4	5	6	6
Biology	106	105	104	101	102	101	102	105
Biometry/epidemiology	0	0	0	0	0	1	3	3
Biophysics	0	0	0	0	0	0	0	0
Botany	2	2	2	2	2	1	1	0
Cell/molecular biology	3	4	5	4	4	5	6	7
Ecology	6	6	6	7	5	3	3	4
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	2	2	2	2	2	2	0	0
Microbiology/immunology/virology	4	5	3	3	3	3	4	4
Nutrition	10	10	10	14	14	13	13	16
Pathology	0	0	0	0	0	0	0	1
Pharmacology	0	0	0	0	0	0	1	1
Physiology	4	4	5	5	5	6	5	4
Zoology	1	1	1	1	1	1	1	1
Biological sciences, nec	15	14	17	19	21	18	22	29
Communication[b]	ne	ne	ne	ne	31	39	43	46
Computer sciences	98	99	101	102	100	104	112	113
Earth, atmospheric, and ocean sciences	56	56	55	55	53	52	52	50
Atmospheric sciences	1	1	1	1	1	1	1	1
Geosciences	27	27	25	25	27	29	27	28
Ocean sciences	5	5	5	6	6	6	6	6
Earth/atmospheric/ocean sciences, nec	23	23	24	23	19	16	18	15
Family and consumer sciences/human sciences[b]	ne	ne	ne	ne	12	13	15	14
Mathematical sciences	77	76	75	75	75	72	73	78
Mathematics/applied mathematics	74	73	72	72	72	69	68	72
Statistics	3	3	3	3	3	3	5	6
Multidisciplinary/interdisciplinary studies[b]	ne	ne	ne	ne	40	43	46	47
Neuroscience[b]	na	na	na	na	1	1	2	1
Physical sciences	71	73	70	74	72	70	69	72
Astronomy	0	0	0	1	1	0	0	0
Chemistry	47	49	46	46	46	45	44	49
Physics	17	17	17	20	19	19	20	17
Physical sciences, nec	7	7	7	7	6	6	5	6
Psychology	204	205	199	199	197	192	186	181
Clinical psychology	32	33	31	34	31	35	32	32
Psychology, general	71	69	67	65	65	64	60	58
Psychology, nec	101	103	101	100	101	93	94	91
Social sciences	273	259	251	256	249	241	248	261
Agricultural economics	0	1	1	1	1	2	2	2
Anthropology (cultural/social)	13	12	12	13	13	14	14	15
Economics	24	21	20	20	20	20	21	21
Geography	23	22	21	23	23	23	22	23
History and philosophy of science	8	7	6	6	6	5	4	4
Linguistics	6	6	6	6	6	6	6	6
Political science/public administration	95	92	87	81	80	74	80	84
Sociology	34	33	33	30	29	29	30	29

TABLE A-3. Science, engineering, and health organizational units in master's-granting institutions, by detailed field: 2004–10

Field	2004	2005[a]	2006	2007old[b]	2007new[b]	2008	2009	2010
Sociology/anthropology	2	2	2	2	2	2	1	1
Social sciences, nec	68	63	63	74	69	66	68	76
Engineering	184	173	178	170	174	179	188	182
Aerospace engineering	3	3	3	3	3	3	3	2
Agricultural engineering	0	0	0	0	0	0	0	0
Architecture[b]	na	na	na	na	2	3	3	3
Biomedical engineering	3	3	3	3	3	1	2	2
Chemical engineering	6	6	6	5	5	5	7	7
Civil engineering[b]	28	27	27	30	29	31	32	32
Electrical engineering	46	42	44	41	43	46	50	47
Engineering science/engineering physics	4	3	3	4	5	6	5	4
Industrial/manufacturing engineering	33	32	34	30	31	30	31	32
Mechanical engineering	25	23	24	21	21	24	26	25
Metallurgical/materials engineering	2	2	2	2	2	2	1	2
Mining engineering	2	2	2	2	2	2	2	2
Nuclear engineering	0	0	0	0	0	0	0	0
Petroleum engineering	1	1	1	1	1	1	1	1
Engineering, nec	31	29	29	28	27	25	25	23
Health	257	258	254	217	213	185	174	163
Clinical medicine	24	24	24	31	31	28	27	28
Anesthesiology	4	4	4	3	3	3	2	2
Cardiology	0	0	0	1	1	1	1	1
Endocrinology	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0
Neurology[b]	0	1	1	1	0	0	0	0
Obstetrics/gynecology	0	0	0	0	0	0	0	0
Oncology/cancer research	0	0	0	1	1	1	1	1
Ophthalmology	0	0	0	0	0	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	0	0
Pediatrics	0	0	0	0	0	0	0	0
Preventive medicine/community health	11	12	12	17	20	19	23	24
Psychiatry	1	0	0	0	0	0	0	0
Pulmonary disease	0	0	0	0	0	0	0	0
Radiology	1	1	1	0	0	0	0	0
Surgery	0	0	0	0	0	0	0	0
Clinical medicine, nec	7	6	6	8	6	4	0	0
Other health	233	234	230	186	182	157	147	135
Dental sciences	0	0	0	0	0	0	0	0
Nursing	80	83	83	57	57	49	37	26
Pharmaceutical sciences	1	1	1	1	1	2	3	3
Communication disorders sciences	57	55	54	57	57	52	53	54
Veterinary sciences	0	0	0	0	0	0	0	0
Other health, nec	95	95	92	71	67	54	54	52

na = not applicable; data were not collected at this level of detail. ne = not eligible; data were not collected for this field prior to 2007.

nec = not elsewhere classified.

[a] Includes organizational units at schools closed because of Hurricane Katrina.
[b] In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and survey was redesigned to improve coverage and coding of GSS-eligible units. "2007new" presents data as collected in 2007; "2007old" reflects data as they would have been collected under 2006 methodology. Science fields "communication" and "family and consumer sciences/human sciences" are newly eligible; data for these two fields are only in 2007new. Science field "multidisciplinary/interdisciplinary studies" is also newly eligible; these data may have been reported under other fields before 2007. "Neuroscience" is reported as a separate field of science in 2007new; these data were reported under health field "neurology" in 2007old and previous years. "Architecture" is reported as a separate field of engineering in 2007new; these data were reported under "civil engineering" in 2007old and previous years. See appendix A, "Technical Notes," for more detail.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-4. Response rates for science, engineering, and health organizational units: 1975–2010

Year	Total	Complete response		Partial response		Nonresponse	
		Number	Percent	Number	Percent	Number	Percent
1975[a]	9,162	8,998	98.2	NA	NA	164	1.8
1976	9,275	9,148	98.6	NA	NA	127	1.4
1977	9,513	9,432	99.1	NA	NA	81	0.9
1978[b]	8,242	8,077	98.0	NA	NA	165	2.0
1979	9,796	9,446	96.4	NA	NA	350	3.6
1980	9,930	9,593	96.6	NA	NA	337	3.4
1981	9,917	8,594	86.7	613	6.2	710	7.2
1982	9,776	8,104	82.9	744	7.6	928	9.5
1983	9,663	8,070	83.5	816	8.4	777	8.0
1984	8,748	7,490	85.6	643	7.4	615	7.0
1985	9,025	7,818	86.6	672	7.4	535	5.9
1986	9,097	7,817	85.9	779	8.6	501	5.5
1987	9,254	8,030	86.8	715	7.7	509	5.5
1988	10,295	8,812	85.6	970	9.4	513	5.0
1989	10,318	8,908	86.3	891	8.6	519	5.0
1990	10,483	8,884	84.7	1,053	10.0	546	5.2
1991	10,705	9,052	84.6	1,186	11.1	467	4.4
1992	10,936	9,066	82.9	1,538	14.1	332	3.0
1993	11,146	9,156	82.1	1,555	14.0	435	3.9
1994	11,411	8,863	77.7	2,109	18.5	439	3.8
1995	11,598	9,514	82.0	1,730	14.9	354	3.1
1996	11,592	9,851	85.0	1,522	13.1	219	1.9
1997	11,597	9,720	83.8	1,665	14.4	212	1.8
1998	11,718	9,822	83.8	1,706	14.6	190	1.6
1999	11,833	9,396	79.4	2,289	19.3	148	1.3
2000	11,899	9,818	82.5	1,965	16.5	116	1.0
2001	11,967	10,121	84.6	1,731	14.5	115	1.0
2002	12,126	10,434	86.0	1,567	12.9	125	1.0
2003	12,261	10,343	84.4	1,709	13.9	209	1.7
2004[c]	12,240	10,426	85.2	1,609	13.1	205	1.7
2004[d]	12,240	10,524	86.0	1,474	12.0	242	2.0
2005[d]	12,396	10,783	87.0	1,270	10.2	343	2.8
2006[d]	12,320	10,814	87.8	1,177	9.6	329	2.7
2007[e]	12,629	11,020	87.3	1,290	10.2	319	2.5
2008	13,166	11,574	87.9	1,436	10.9	156	1.2
2009	13,285	11,709	88.1	1,478	11.1	98	0.7
2010	13,711	11,703	85.4	1,880	13.7	128	0.9

NA = not available; organizational units providing partial responses are included in complete response column prior to 1981 and reported separately beginning in 1981.

[a] 1976 survey also collected 1975 data from master's-granting institutions.

[b] Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

[c] Calculated using response-rate formula used through 2003. See appendix A, "Technical Notes."

[d] Calculated using response-rate formula used from 2004 to 2006. Schools closed in 2005 because of Hurricane Katrina were counted as nonrespondents.

[e] Calculated using response-rate formula implemented in 2007. See appendix A, "Technical Notes."

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-5. Imputation for nonresponse in doctorate-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

Year and field	Organizational units in universe	Total in survey			Number imputed			Imputation rate (%)		
		Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate
Fall 2010, all fields	12,276	433,252	142,533	63,305	6,613	1,749	2,969	1.5	1.2	4.7
Agricultural sciences	445	10,505	4,056	1,189	18	0	19	0.2	0.0	1.6
Biological sciences	2,279	60,028	9,494	21,489	801	69	1,026	1.3	0.7	4.8
Communication	167	5,588	2,631	60	53	67	0	0.9	2.5	0.0
Computer sciences	439	30,080	15,780	746	1,195	538	23	4.0	3.4	3.1
Earth, atmospheric, and ocean sciences	407	11,868	2,888	1,758	318	99	47	2.7	3.4	2.7
Family and consumer sciences/human sciences	87	2,118	1,373	30	0	0	1	0.0	0.0	3.3
Mathematical sciences	450	16,917	4,413	752	224	24	20	1.3	0.5	2.7
Multidisciplinary/interdisciplinary studies	302	4,482	2,260	763	0	0	2	0.0	0.0	0.3
Neuroscience	107	2,682	116	817	28	0	20	1.0	0.0	2.4
Physical sciences	664	34,280	3,591	7,677	422	16	330	1.2	0.4	4.3
Psychology	657	33,566	11,680	1,072	544	84	28	1.6	0.7	2.6
Social sciences	1,657	67,836	28,080	644	617	88	8	0.9	0.3	1.2
Engineering	1,821	106,434	35,368	6,950	1,633	586	386	1.5	1.7	5.6
Health fields	2,794	46,868	20,803	19,358	760	178	1,059	1.6	0.9	5.5
Fall 2009, all fields	11,865	428,856	145,027	57,714	5,209	2,396	1,066	1.2	1.7	1.8
Agricultural sciences	453	10,246	3,864	1,080	0	0	11	0.0	0.0	1.0
Biological sciences	2,227	59,235	9,345	20,125	628	164	307	1.1	1.8	1.5
Communication	156	5,429	2,522	38	23	2	0	0.4	0.1	0.0
Computer sciences	422	29,669	15,924	591	695	465	18	2.3	2.9	3.0
Earth, atmospheric, and ocean sciences	388	11,211	2,731	1,420	177	108	34	1.6	4.0	2.4
Family and consumer sciences/human sciences	81	1,903	1,181	22	0	0	0	0.0	0.0	0.0
Mathematical sciences	450	16,328	4,199	737	10	17	2	0.1	0.4	0.3
Multidisciplinary/interdisciplinary studies	226	3,420	2,091	458	0	0	0	0.0	0.0	0.0
Neuroscience	84	2,261	55	642	0	0	0	0.0	0.0	0.0
Physical sciences	640	33,671	3,427	7,424	53	28	106	0.2	0.8	1.4
Psychology	662	34,585	11,979	1,209	358	109	121	1.0	0.9	10.0
Social sciences	1,646	67,116	28,109	560	1,255	304	3	1.9	1.1	0.5
Engineering	1,756	101,495	35,227	6,411	1,358	582	121	1.3	1.7	1.9
Health fields	2,674	52,287	24,373	16,997	652	617	343	1.2	2.5	2.0
Fall 2008, all fields	11,773	422,287	151,954	54,087	4,434	2,034	1,560	1.0	1.3	2.9
Agricultural sciences	438	9,564	3,535	1,146	11	7	22	0.1	0.2	1.9
Biological sciences	2,175	58,501	9,698	19,794	450	88	826	0.8	0.9	4.2
Communication	142	4,642	2,388	32	0	0	0	0.0	0.0	0.0
Computer sciences	417	28,850	15,321	490	633	409	10	2.2	2.7	2.0
Earth, atmospheric, and ocean sciences	387	10,874	2,789	1,335	177	73	30	1.6	2.6	2.2
Family and consumer sciences/human sciences	71	1,754	1,253	19	0	0	0	0.0	0.0	0.0
Mathematical sciences	447	15,636	4,086	723	9	5	5	0.1	0.1	0.7
Multidisciplinary/interdisciplinary studies	191	2,818	1,868	348	0	0	0	0.0	0.0	0.0
Neuroscience	63	1,908	72	343	0	0	14	0.0	0.0	4.1
Physical sciences	627	32,747	3,573	6,872	65	13	135	0.2	0.4	2.0

TABLE A-5. Imputation for nonresponse in doctorate-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

Year and field	Organizational units in universe	Total in survey			Number imputed			Imputation rate (%)		
		Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate
Psychology	685	35,866	12,561	1,070	648	235	141	1.8	1.9	13.2
Social sciences	1,629	64,107	27,577	506	273	64	11	0.4	0.2	2.2
Engineering	1,736	95,077	35,646	5,457	1,229	915	76	1.3	2.6	1.4
Health fields	2,765	59,943	31,587	15,952	939	225	290	1.6	0.7	1.8

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-6. Imputation for nonresponse in master's-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

Year and field	Organizational units in universe	Total in survey			Number imputed			Imputation rate (%)		
		Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate
Fall 2010, all fields	1,435	27,933	28,934	110	160	93	4	0.6	0.3	3.6
Agricultural sciences	46	582	513	6	0	0	0	0.0	0.0	0.0
Biological sciences	181	2,742	2,664	48	14	36	0	0.5	1.4	0.0
Communication	46	686	920	0	0	0	0	0.0	0.0	0.0
Computer sciences	113	2,702	2,984	2	9	6	0	0.3	0.2	0.0
Earth, atmospheric, and ocean sciences	50	450	449	2	0	0	0	0.0	0.0	0.0
Family and consumer sciences/human sciences	14	259	441	0	0	0	0	0.0	0.0	0.0
Mathematical sciences	78	689	1,117	4	0	0	0	0.0	0.0	0.0
Multidisciplinary/interdisciplinary studies	47	581	621	2	0	0	1	0.0	0.0	50.0
Neuroscience	1	0	0	1	0	0	0	0.0	0.0	0.0
Physical sciences	72	576	526	26	3	0	3	0.5	0.0	11.5
Psychology	181	5,005	3,168	5	0	0	0	0.0	0.0	0.0
Social sciences	261	5,093	8,211	2	19	7	0	0.4	0.1	0.0
Engineering	182	3,358	4,081	6	0	0	0	0.0	0.0	0.0
Health fields	163	5,210	3,239	6	115	44	0	2.2	1.4	0.0
Fall 2009, all fields	1,420	27,259	30,503	91	130	64	11	0.5	0.2	12.1
Agricultural sciences	45	577	513	3	0	0	0	0.0	0.0	0.0
Biological sciences	167	2,231	2,493	34	13	35	3	0.6	1.4	8.8
Communication	43	662	805	0	0	0	0	0.0	0.0	0.0
Computer sciences	112	2,529	3,039	3	9	6	0	0.4	0.2	0.0
Earth, atmospheric, and ocean sciences	52	378	519	4	0	0	2	0.0	0.0	50.0
Family and consumer sciences/human sciences	15	265	445	0	0	0	0	0.0	0.0	0.0
Mathematical sciences	73	557	1,142	0	0	0	0	0.0	0.0	0.0
Multidisciplinary/interdisciplinary studies	46	537	509	1	0	0	0	0.0	0.0	0.0
Neuroscience	2	0	40	3	0	0	0	0.0	0.0	0.0
Physical sciences	69	510	541	23	0	0	0	0.0	0.0	0.0
Psychology	186	5,788	3,832	10	0	0	6	0.0	0.0	60.0
Social sciences	248	4,453	8,142	1	18	7	0	0.4	0.1	0.0
Engineering	188	3,442	4,513	5	0	0	0	0.0	0.0	0.0
Health fields	174	5,330	3,970	4	90	16	0	1.7	0.4	0.0
Fall 2008, all fields	1,393	27,326	29,922	77	831	716	8	3.0	2.4	10.4
Agricultural sciences	43	568	486	1	0	0	0	0.0	0.0	0.0
Biological sciences	159	2,161	2,306	33	21	43	3	1.0	1.9	9.1
Communication	39	582	832	0	0	0	0	0.0	0.0	0.0
Computer sciences	104	2,488	2,894	3	56	40	0	2.3	1.4	0.0
Earth, atmospheric, and ocean sciences	52	297	429	4	9	0	1	3.0	0.0	25.0
Family and consumer sciences/human sciences	13	182	360	0	0	0	0	0.0	0.0	0.0
Mathematical sciences	72	605	1,073	0	0	0	0	0.0	0.0	0.0
Multidisciplinary/interdisciplinary studies	43	292	581	0	7	1	0	2.4	0.2	0.0
Neuroscience	1	1	31	0	0	0	0	0.0	0.0	0.0
Physical sciences	70	507	492	13	0	0	0	0.0	0.0	0.0
Psychology	192	6,237	4,327	7	68	17	0	1.1	0.4	0.0

TABLE A-6. Imputation for nonresponse in master's-granting institutions, by field and graduate enrollment or postdoctoral status: 2008–10

Year and field	Organizational units in universe	Total in survey			Number imputed			Imputation rate (%)		
		Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate	Full-time student	Part-time student	Post-doctorate
Social sciences	241	4,118	7,582	2	119	329	0	2.9	4.3	0.0
Engineering	179	3,178	3,955	5	33	40	0	1.0	1.0	0.0
Health fields	185	6,110	4,574	9	518	246	4	8.5	5.4	44.4

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering.

TABLE A-7. Imputation rates of full-time graduate students in science, engineering, and health fields, by source and mechanism of support: 2010

Source of support	All sources	Federal								Nonfederal			Self-support
				HHS									
		DOD	DOE	NIH	Other	NASA	NSF	USDA	Other	Domestic	Foreign	Institutional	
All sources, all students	1.5	13.0	2.2	7.3	11.8	12.5	6.6	4.1	6.2	10.4	4.7	8.4	11.1
Fellowship	8.7	9.9	2.0	6.1	14.1	13.1	8.1	1.9	8.0	12.4	5.2	8.8	na
Research assistantship	8.0	11.6	2.2	7.5	10.3	13.4	6.3	3.9	6.7	11.0	2.8	8.2	na
Teaching assistantship	8.3	na	2.5	na	1.9	4.9	9.7	6.9	1.5	11.5	39.6	8.3	na
Traineeship	7.3	3.5	0.0	6.6	18.0	0.0	6.1	42.1	6.4	7.8	15.5	6.3	na
Other support	10.8	21.9	3.2	8.7	0.6	0.0	4.2	3.7	3.8	6.6	4.7	9.2	11.1
All sources, female students	1.4	10.8	1.8	7.5	11.0	6.8	5.0	3.5	6.1	9.0	4.9	8.4	11.2

na = not applicable; question was not asked.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-8. Imputation rates of graduate students in science, engineering, and health fields, by citizenship, ethnicity, race, enrollment status, and sex: 2010

Citizenship and race/ethnicity	Part time			Full time			First-time, full-time enrolled		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All graduate students	1.1	1.9	1.3	1.5	1.9	1.4	2.0	2.1	2.5
U.S. citizens and permanent residents									
Hispanic or Latino	1.7	2.4	1.1	1.8	2.2	1.5	2.2	2.3	2.2
Not Hispanic or Latino									
American Indian or Alaska Native	1.2	1.0	1.3	1.8	1.9	1.6	1.4	1.7	1.4
Asian	2.1	2.2	2.1	2.1	2.5	1.8	2.9	2.7	3.1
Black	1.2	1.8	0.9	1.5	1.9	1.2	3.9	2.5	4.6
Native Hawaiian or Other Pacific Islander	3.6	7.4	0.4	2.9	4.1	2.0	2.7	5.7	0.7
White	1.8	2.1	1.5	2.0	2.4	1.5	2.5	2.3	2.6
More than one race	1.3	0.1	2.2	0.7	0.5	0.8	1.3	1.1	1.5
Unknown ethnicity/race	3.4	3.9	2.7	2.2	3.5	3.2	2.5	2.6	2.4
Temporary visa holders	2.1	1.9	2.4	1.8	1.9	1.8	2.3	2.3	2.4

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-9. Imputation rates of postdoctoral appointees and nonfaculty researchers in science, engineering, and health fields: 2010

Status	Total	Men	Women
Postdoctoral appointees	4.7	10.0	7.2
Foreign appointees	8.5	10.1	8.5
Nonfaculty researchers	5.9	6.6	6.7

NOTE: Data collection for postdoctoral appointees (postdoc) and other doctorate-holding nonfaculty researchers (NFRs) expanded considerably in 2010. Above counts were only items that were imputed using historical data; missing data for all other postdoc and NFR items were left as missing.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-10. Imputed full-time graduate students in science, engineering, and health fields, by source and mechanism of support: 2010

Source of support	All sources	Federal								Domestic	Foreign	Institutional	Self-support
		DOD	DOE	HHS		NASA	NSF	USDA	Other				
				NIH	Other								
All sources, all students	6,773	1,203	120	2,004	266	308	1,543	125	802	2,312	198	14,924	19,015
Fellowship	3,477	62	6	128	28	45	332	2	145	353	61	2,314	na
Research assistantship	9,839	816	111	1,402	117	261	1,132	109	544	1,617	40	3,659	na
Teaching assistantship	6,950	na	2	na	2	2	34	4	8	136	61	6,698	na
Traineeship	905	4	0	380	118	0	35	8	32	41	25	262	na
Other support	21,896	321	1	94	1	0	10	2	75	194	62	2,014	19,017
All sources, female students	3,009	216	23	1,080	154	53	386	54	344	782	73	6,832	9,859

na = not applicable; question was not asked.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-11. Imputed graduate students in science, engineering, and health fields, by citizenship, race/ethnicity, enrollment status, and sex: 2010

Citizenship and race/ethnicity	Part time			Full time			First-time, full-time enrolled		
	Total[a]	Male	Female	Total[a]	Male	Female	Total[a]	Male	Female
All graduate students	1,842	1,708	1,050	6,773	4,582	3,009	2,792	1,530	1,585
U.S. citizens and permanent residents									
Hispanic or Latino	193	128	65	391	211	180	148	70	81
Not Hispanic or Latino									
American Indian or Alaska Native	11	4	7	34	16	18	7	4	4
Asian	242	137	105	557	328	229	242	115	128
Black or African American	190	97	93	328	152	176	259	57	203
Native Hawaiian or Other Pacific Islander	18	17	1	25	15	10	6	5	1
White	1,663	1,002	661	4,089	2,520	1,569	1,530	704	836
More than one race	20	1	19	28	9	19	22	8	14
Other or unknown ethnicity/race	499	308	191	545	434	394	179	94	85
Temporary visa holders	463	274	189	2,718	1,851	997	997	622	375

[a] This table reports sum of counts imputed in each of these cells/variables. Because some units report totals without complete details, sum of imputed details will often be higher than related total.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

TABLE A-12. Imputed postdoctoral appointees and nonfaculty researchers in science, engineering, and health fields: 2010

Status	Total[a]	Men	Women
Postdoctoral appointees	2,973	3,940	1,747
Foreign appointees	2,863	2,255	955
Nonfaculty researchers	1,242	847	556

[a] This table reports the sum of the counts imputed in each of these cells/variables. Because some units report totals without complete details, the sum of the imputed details will often be higher than the related total.

NOTE: Data collection for postdoctoral appointees (postdoc) and other doctorate-holding nonfaculty researchers (NFRs) expanded considerably in 2010. Above counts were only items that were imputed using historical data; missing data for all other postdoc and NFR items were left as missing.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering, 2010.

Appendix B. Survey Materials

- Worksheet for Survey of Graduate Students and Postdoctorates in Science and Engineering: Fall 2010
- 2010 GSS Code List
- Crosswalk between 2010 GSS Codes and 2000 National Center for Education Statistics (NCES) Classification of Instructional Programs (CIP) Codes

Worksheet for Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) Fall 2010

National Science Foundation (NSF) & National Institutes of Health (NIH)

Dear Colleague,

This document provides a worksheet and instructions to help you compile your answers to the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). It is intended as an aid for use with the GSS Web survey. Please read page 2 for more information about preparing and submitting your information.

RTI International, the survey contractor for the GSS, provided the 2010 GSS survey materials to the individual selected as the School Coordinator for your school. The School Coordinator is responsible for monitoring your institution's responses to the survey, and will be in touch with you about completing and submitting your survey response to NSF. Responses are due on **February 28, 2011**.

The GSS, conducted since 1966, is an annual survey that provides information on the training of the future labor force in the science, engineering, and health fields. Your timely response helps us minimize the cost of follow-ups and ensures that we accurately represent your institution in national statistical tables.

We appreciate the time and effort you devote to providing this important information.

If you have questions, please e-mail RTI at gss@rti.org or call RTI toll-free at 1-866-558-0781. Please submit the information on this worksheet via the Web survey at http://gss2010.org.

Sincerely,

Lynda T. Carlson, PhD
Director
Division of Science Resources Statistics
National Science Foundation

Rodney Ulane, PhD
Director, Division of Scientific Programs
Office of the Director
National Institutes of Health

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for statistical purposes only. Response is entirely voluntary, and failure to provide some or all of the information will in no way adversely affect your institution. The average time required for questionnaire completion is 2.5 hours. Response burden comments should be directed to Suzanne Plimpton, Reports Clearance Officer, NSF, via e-mail at splimpto@nsf.gov.

Form approved
OMB No. 3145-0062
Expires 10/31/2011

W2009SC

RTI International, Contractor for GSS
3040 East Cornwallis Road, P.O. Box 12194, Research Triangle Park, NC 27709-2194 • gss@rti.org • toll-free: (866) 558-0781

Survey Information

Welcome to the 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS). The GSS asks for counts of the following information by organizational unit (unit):

- **Graduate Students**
  - Part-time graduate students by demographics, including citizenship, ethnicity, race, and sex
  - Full-time graduate students by demographics, including citizenship, ethnicity, race, and sex
  - Full-time graduate students by financial support, including agency (e.g., NSF, NIH) and mechanism (e.g., training grant, fellowship)
- **Postdoctoral Researchers (Postdocs)**
  - By demographics, including citizenship, ethnicity, race, and sex
  - By financial support, including agency (e.g., NSF, NIH) and mechanism (e.g. training grant, fellowship)
  - By type of degree (professional, PhD, or PhD equivalent) and origin of degree (U.S. or foreign)
- **Other Doctorate-Holding Nonfaculty Researchers**
  - By sex and type of degree (professional, PhD, or PhD equivalent)

If you need additional copies of this worksheet, please visit the GSS Web survey site http://gss2010. to download additional copies.

For **Glossary** terms used in the GSS, please refer to the Glossary starting on page 11. Hovering the mouse pointer over the term will automatically bring up the definition in the GSS Web survey.

Submissions

Deadline

Submit the data to NSF by February 28, 2011.

Online Submissions

This worksheet is designed to aid you in gathering information for entry in the GSS Web survey.

- Use the GSS Web survey to report and submit the information on this worksheet for each organizational unit identified by your School Coordinator.
- Access the GSS Web survey at http://gss2010.org using the ID and password you received by e-mail.
- If you've lost the ID and password sent by your School Coordinator or you have not yet received an ID and password, please contact the survey help desk toll-free at 866-558-0781, or e-mail us at gss@rti.org

Paper Submissions

- If reporting online is not possible, your School Coordinator may ask you to provide your answers on this worksheet and return it to his or her office for submission to RTI.
- If your School Coordinator asks you to return your survey response directly by mail, please send it to RTI at the address listed on the bottom of the cover letter

1

A. What is the name of this organizational unit?

This information (provided by your School Coordinator) is automatically filled on the GSS Web survey pages.

Organizational units (~~u~~nits") include teaching units (departments or programs) and research units (research centers or health care facilities). This term replaces terms used previously: department, program, research center, health care facility.

Important

- Report clinical psychology separately from all other psychology department or programs.
- Report each engineering field (e.g., electrical engineering, mechanical engineering) separately.

Please contact your School Coordinator if you think more organizational units should be specified for your survey response. The School Coordinator will adjust the GSS Web survey accordingly.

B. Who is the *primary contact* for your organizational unit, or the person assigned to complete this survey response?

Institution name	
First name	
Last name	
Title	
Telephone	
Telephone extension	
E-mail	

C. Who is the *alternative contact* if the primary contact is not available? Examples include your supervisor, the data preparer, or another coworker.

First name	
Last name	
Title	
Telephone	
Telephone extension	
E-mail	

D. As of fall 2010, what is the highest graduate degree offered by this organizational unit?

- ❑ PhD or equivalent, such as ScD or DEng (exclude EdD, MD, or other professional degrees) → **Continue with Question 2**
- ❑ Master's degree (exclude certificates) → **Continue with Question 2**
- ❑ No PhD or master's degree offered → **Skip to Question 5A**

❑ Check this box if categories left blank should NOT be counted as zeros.

2

How many graduate students were enrolled *part-time* for credit in this organizational unit in fall 2010 in each category below? Use your institution's definition of part-time. (Full-time is collected in Question 3)

❑ Check this box if this unit had no eligible part-time graduate students, and then skip to Question **3**

Note

- Count only students enrolled ***part-time*** for credit in a graduate-degree program in science, engineering, or health
- Count students enrolled in more than one organizational unit in only one home unit

Include

- Part-time students doing thesis or dissertation research
- Part-time students pursuing a master's, PhD, or equivalent degree such as an ScD or Deng
- Part-time master's or PhD candidates (including residents and interns) concurrently enrolled in a professional degree program (e.g., MD, DDS, DO, DPT, DVM) ***or*** a joint medical/PhD program
- Part-time students who already hold a graduate or professional degree ***and*** are seeking an additional degree in a master's or PhD program

Exclude

- Graduate students enrolled at a branch or extension center of a U.S. institution in a foreign country

Citizenship, Ethnicity, and Race

- Count any student who is Hispanic/Latino, or Hispanic/Latino and any other race, in Row B. See the Glossary (p. 11) for full definitions of citizenship, ethnicity, and race categories.

Citizenship, ethnicity, and race of part-time students (report students in whole numbers)		**Part-time graduate students**		
		Male 1	Female 2	**Total[1]** **3**
Foreign nationals holding temporary visas, regardless of ethnicity or race	A			
U.S. citizens and permanent residents (non-U.S. citizens holding green cards)				
• Hispanic/Latino ethnicity (one or more races)	B			
• Non-Hispanic/Latino (one or more races)				
One race, American Indian/Alaska Native	C			
One race, Asian	D			
One race, Black/African American	E			
One race, Native Hawaiian/Other Pacific Islander	F			
One race, White	G			
More than one race (non-Hispanic/Latino)	H			
• Ethnicity/race unknown or not stated	I			
Total part-time students (sum Rows A–I)[1]	J			

Please explain significant differences from the 2009 survey or provide other comments here.

[1] Row and column totals are calculated automatically if you report on the GSS Web survey

❑ Check this box if categories left blank should NOT be counted as zeros.

3

How many graduate students were enrolled *full-time* for credit in this organizational unit in fall 2010 in each category below? Of these, how many full-time students were enrolled for the *first time*? Use your institution's definition of full-time.

❑ Check this box if this unit had no eligible full-time graduate students, and then skip to Question **5A**

Note

- Count only students enrolled ***full-time*** for credit in a graduate-degree program in science, engineering, or health
- Count students enrolled in more than one organizational unit in only one home unit

Include

- Full-time students doing thesis or dissertation research
- Full-time students pursuing a master's, PhD, or equivalent degree, such as an ScD or Deng
- Full-time master's or PhD candidates (including residents and interns) concurrently enrolled in a professional degree program (e.g., MD, DDS, DO, DPT, DVM) ***or*** a joint medical/PhD program
- Full-time students who already hold a graduate or professional degree ***and*** are seeking an additional degree in a master's or PhD program

Exclude

- Graduate students enrolled at a branch or extension center of a U.S. institution in a foreign country

First-time enrollment for full-time students

- First-time students are those enrolled for credit in a graduate-degree program in ***this unit*** for the first time in fall 2010. This may include graduate students previously enrolled in another graduate degree program at your institution or at another institution and students that already hold another graduate or professional degree.

Citizenship, Ethnicity, and Race

- Count any student who is Hispanic/Latino, or Hispanic/Latino and any other race, in Row B. See the Glossary (p. 11) for full definitions of citizenship, ethnicity, and race categories.

Consistency checks: Row J, Column 1 = Question 4, Row M, Column 7 (total full-time male graduate students)
Row J, Column 2 = Question 4, Row M, Column 8 (total full-time female graduate students)
Row J, Column 3 = Question 4, Row M, Column 6 (total full-time graduate students)

Citizenship, ethnicity, and race of full-time students (report students in whole numbers)		**Full-time graduate students**					
		Total full-time			**Of Col. 3 total, how many are first time?**		
		Male 1	Female 2	**Total[1] 3**	Male 4	Female 5	**Total[1] 6**
Foreign nationals holding temporary visas, regardless of ethnicity or race	A						
U.S. citizens and permanent residents (non-U.S. citizens holding green cards)							
• Hispanic/Latino ethnicity (one or more races)	B						
• Non-Hispanic/Latino (one or more races)							
One race, American Indian/Alaska Native	C						
One race, Asian	D						
One race, Black/African American	E						
One race, Native Hawaiian/Other Pacific Islander	F						
One race, White	G						
More than one race (non-Hispanic/Latino)	H						
• Ethnicity/race unknown or not stated	I						
Total full-time students (sum Rows A–I)[1]	J						

Please explain significant differences from the 2009 survey or provide other comments here.

[1] Row and column totals are calculated automatically if you report on the GSS Web survey

❑ Check this box if categories left blank should NOT be counted as zeros.

4 How many graduate students enrolled *full-time for credit* in this organizational unit in fall 2010 received their largest source of financial support from each category below? Report students by mechanism of support and by sex. Use your institution's definition of full-time.

❑ Check this box if this unit had no eligible full-time graduate students, and then skip to Question **5A**

Note

- Count only students enrolled ***full-time*** for credit in a graduate-degree program in science, engineering, or health
- Count students enrolled in more than one organizational unit in only one home unit
- If a student receives support from two or more sources equally, select one to report as the primary source
- See the Glossary (p. 11) for definitions of terms used in Question 4

Include

- Full-time graduate students doing thesis or dissertation research
- Full-time students pursuing a master's, PhD, or equivalent degree, such as an ScD or Deng
- Full-time master's or PhD candidates (including residents and interns) concurrently enrolled in a professional degree program (e.g., MD, DDS, DO, DPT, DVM) ***or*** a joint medical/PhD program
- Full-time students who already hold a graduate or professional degree ***and*** are seeking an additional degree in a master's or PhD program

Exclude

- Full-time graduate students enrolled at a branch or extension center of a U.S. institution in a foreign country

Consistency checks: Row M, Column 6 = Question 3, Row J, Column 3 (total full-time graduate students)
Row M, Column 7 = Question 3, Row J, Column 1 (total full-time male graduate students)
Row M, Column 8 = Question 3, Row J, Column 2 (total full-time female graduate students)

Largest source of financial support (use all graduate academic support: tuition reimbursement, waivers, stipends, etc., to determine largest source)	**Full-time graduate students**							
	Largest mechanism of financial support (report students in whole numbers)						**Total by Sex** (must sum to total in Column 6)	
	Fellowships 1	Traineeships 2	Research assistantships 3	Teaching assistantships 4	Other support 5	**Total[1] 6**	Male 7	Female 8
Federal (e.g., training grants from federal agencies; however, federal loans are reported in Row L)								
• Department of Defense ..... A								
• HHS-NIH Only ..... B								
• HHS-Other than NIH..... C								
• NSF ..... D								
• Department of Agriculture..... E								
• NASA..... F								
• Department of Energy ..... G								
• Other federal sources[2]..... H								
Nonfederal (*Institutional* means the support from your institution: tuition reimbursement, waivers, stipends, etc.)								
• Institutional, state/local government I								
• Other U.S. sources ..... J								
• Non-U.S. sources ..... K								
Self (*Student's own resources* means the personal and family financial resources and federal and other loans)								
• Student's own resources L	Report under **Other Support** (and by **Sex**):							
Total (sum Rows A–L)[1]..... M								

Please explain significant differences from the 2009 survey or provide other comments here.

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.
[2] This also includes the Fulbright Program (State Department) and the GI Bill (Department of Veterans Affairs).

❑ Check this box if categories left blank should NOT be counted as zeros.

5A

In fall 2010, how many postdocs did this organizational unit have in each category in the table below? Please do not count other doctorate-holding nonfaculty researchers. (Information on other doctorate-holding nonfaculty researchers is collected in Question 5D.)

❑ Check this box if this unit had no postdocs.
❑ Check this box if this unit had postdocs for which you cannot report complete data.

- Count individuals in one and only one unit.
- Include clinical fellows if the primary purpose of the appointment is research training.
- Exclude postdocs with appointments in residency training programs.
- Count postdocs who are Hispanic/Latino, or Hispanic/Latino and any other race, in Row B only.
- Please use your institution's definition of postdoc. See the Glossary on page 11 for definitions of other terms used in Question 5A.

Citizenship, ethnicity, and race of postdocs (report postdocs in whole numbers)		Male 1	Female 2	**Total[1] 3**
Foreign nationals holding temporary visas, regardless of ethnicity or race	A			
U.S. citizens and permanent residents (non-U.S. citizens holding green cards)				
• Hispanic/Latino ethnicity (one or more races)	B			
• Non-Hispanic/Latino (one or more races)				
One race, American Indian/Alaska Native	C			
One race, Asian	D			
One race, Black/African American	E			
One race, Native Hawaiian/Other Pacific Islander	F			
One race, White	G			
More than one race (non-Hispanic/Latino)	H			
• Ethnicity/race unknown or not stated	I			
Total postdocs (sum Rows A–I)[1]	J			

Please provide any comments about your data here.

[1] Row and column totals are calculated automatically if you report on the GSS Web survey.

❑ Check this box if categories left blank should NOT be counted as zeros.

5B

In this organizational unit in fall 2010, how many postdocs received their largest source of financial support from each category in the table below? Please do not count other doctorate-holding nonfaculty researchers.

❑ Check this box if this unit had no postdocs.

❑ Check this box if this unit had postdocs for which you cannot report complete data.

- Count individuals in one and only one unit.
- Include clinical fellows if the primary purpose of the appointment is research training.
- Exclude postdocs with appointments in residency training programs.
- Count postdocs who are Hispanic/Latino, or Hispanic/Latino and any other race, in Row B only.
- Please use your institution's definition of postdoc. See the Glossary on page 11 for definitions of other terms used in Question 5B.

Largest source of financial support		**Largest mechanism of financial support** (report postdocs in whole numbers)				
		Fellowships 1	Traineeships 2	Research Grants 3	Other Support 4	**Total[1] 5**
Federal (e.g., training grants from federal sources)						
• Department of Defense	A					
• HHS–NIH Only	B					
• HHS–Other than NIH	C					
• NSF	D					
• Department of Agriculture	E					
• NASA	F					
• Department of Energy	G					
• Other federal sources	H					
Sub-total, Federal (sum Rows A–H)[1]	I					
Nonfederal						
• Institutional, state/local government	J					
• Other U.S. sources	K					
• Non-U.S. sources	L					
Sub-total, Nonfederal (sum Rows J–L)[1]	M					
Personal resources	N	Report under **Other Support** (and in **Total**):				
Unknown or not stated	O					
Total (sum Rows I, M, N, & O)[1]	P					
Total Postdocs, Men	Q					
Total Postdocs, Women	R					

Please provide any comments about your data here.

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

❑ Check this box if categories left blank should NOT be counted as zeros.

5C1

Please report the number of postdocs in this organizational unit in fall 2010 by type of doctoral degree and by mechanism of support.

		Fellowships 1	Trainee-ships 2	Research Grants 3	Other Support 4	**Total[1] 5**
Number of postdocs with a **professional degree** (MD, DVM, DO, DDS)	A					
Number of postdocs with a **doctoral degree** (PhD, ScD, DEng)	B					
Number of postdocs with **both professional and doctoral degree** (MD-PhD, DVM-PhD)	C					
Number of postdocs with doctoral **degree type unknown**	D					
Total Postdocs (Determined from question 5B)[1]	E					

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

5C2

Please report the number of postdocs in this organizational unit in fall 2010 by type of doctoral degree and by citizenship.

		Postdocs		
		U.S. Citizens and permanent residents 1	Foreign nationals with temporary visas 2	**Total[1] 3**
Number of postdocs with a **professional degree** (MD, DVM, DO, DDS)	A			
Number of postdocs with a **doctoral degree** (PhD, ScD, DEng)	B			
Number of postdocs with **both professional and doctoral degree** (MD-PhD, DVM-PhD)	C			
Number of postdocs with doctoral **degree type unknown**	D			
Total Postdocs (Determined from question 5A)[1]	E			

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

Please provide any comments about your data here.

❑ Check this box if categories left blank should NOT be counted as zeros.

5C3

Please report the number of postdocs in this organizational unit in fall 2010 by origin of doctoral degree.

Number of postdocs who received their doctoral degree in the United States (including Puerto Rico, and the U.S. territories)	A	
Number of postdocs who received their doctoral degree in a foreign country	B	
Number of postdocs with origin of doctoral degree unknown	C	
Total Postdocs (sum Rows A–C)[1]	D	

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

5D

Please report the number of other doctorate-holding nonfaculty researchers in this organizational unit in fall 2010 by sex and type of degree. This includes individuals who are not considered postdocs or members of the faculty and who are primarily involved in research.

		Nonfaculty Researchers		
		Men 1	Women 2	**Total[1] 3**
Number of nonfaculty researchers with a **professional degree** (MD, DVM, DO, DDS)	A			
Number of nonfaculty researchers with a **doctoral degree** (PhD, ScD, DEng)	B			
Number of nonfaculty researchers with **both professional and doctoral degree** (MD-PhD, DVM-PhD)	C			
Number of nonfaculty researchers with doctoral **degree type unknown**	D			
Total nonfaculty researchers (sum Rows A–D)[1]	E			

[1] Shaded row and column totals will be automatically calculated if you are responding on the GSS Web survey.

Please provide any comments about your data here.

Glossary

Citizenship—Count individuals as either U.S. citizens and permanent residents, or as foreign nationals holding temporary visas. Do not count foreign individuals living outside the United States.

- **U.S. Citizens and Permanent Residents**—U.S. citizens, including those from Puerto Rico and the U.S. territories, and permanent residents holding green cards.
- **Foreign Nationals Holding Temporary Visas**—Individuals in the United States on temporary visas. Individuals who are native residents of Puerto Rico or a U.S. territory, or permanent residents holding green cards, should be included under U.S. citizens and permanent residents. Non U.S. citizens without temporary visas who reside outside the U.S. and who are enrolled in an on-line degree program at a U.S. institution should be excluded. Do not report foreign nationals by ethnicity or race.

Department of Agriculture—Financial support from the U.S. Department of Agriculture (USDA) includes research assistants working on projects financed out of agency formula funds, competitive research grants, and institutional fellowship and training grants.

Department of Defense—Financial support from the U.S. Department of Defense (DoD), including the Departments of the Army, Navy, and Air Force, as well as other programs within DoD.

Department of Energy—Financial support from U.S. Department of Energy (DOE) research grants, including those supported by grants at the DOE National Laboratories.

Doctoral Degree (for Postdocs)—Includes doctorates such as PhD, ScD, DSc, DEng, DESc, DES, DNSc, DPH, EdD, DA, DBA, DMA, DM, DSW, DDES, DPA, DPE, DCM, DHL, DIT, DME, DML, ThD, DFA, JSD, SJD, STD, JCD.

Ethnicity—The U.S. Office of Management and Budget defines ethnicity separately from race (please see separate entry for Race). In this survey, ethnicity refers to whether an individual is of Hispanic or Latino descent—a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Also see Hispanic/Latino ethnicity, one or more races.

Federal Sources of Support—Financial support provided by the federal agencies in Rows A–G. For graduate students, count students primarily supported by federally guaranteed student loans (student's own resources) as self-supported. See additional entries for the Department of Defense, the National Institutes of Health, the Health and Human Services, the National Science Foundation, the Department of Agriculture, and the Department of Energy. See Nonfederal Sources of Support.

Fellowships—A competitive award (often from a national competition) to a graduate student or a postdoc.

First-Time Enrollment—Graduate students enrolled for credit in a graduate-degree program in your organizational unit for the first time in fall 2010. This may include graduate students previously enrolled in another graduate degree program at your institution or at another institution. It may also include students that already hold another graduate or professional degree. Only count full-time, first-time students in these columns.

Foreign Nationals Holding Temporary Visas—Individuals in the United States on temporary visas. Individuals who are native residents of Puerto Rico or a U.S. territory, or permanent residents holding green cards, should be included under U.S. citizens and permanent residents. Non-U.S. citizens without temporary visas who reside outside the U.S. and who are enrolled in an on-line degree program at a U.S. institution should be excluded. Do not report foreign nationals by ethnicity or race.

Full-Time Graduate Student—Use your institution's policy and definition to count full-time students.

GSS (Survey of Graduate Students and Postdoctorates in Science and Engineering)—An annual survey collecting information about graduate enrollment, postdoctoral researchers, and doctorate-holding nonfaculty researchers in science, engineering, and selected health fields. Jointly sponsored by NSF and NIH, the GSS provides a comprehensive picture of the training of future scientists, engineers, and health professionals in U.S. graduate schools.

Health and Human Services (HHS)—Report financial support from the institutes or divisions of the National Institutes of Health (NIH) in Row B. Report support from all other components of the U.S. Department of Health and Human Services (HHS) under Row C. See HHS–National Institutes of Health (NIH) Only and HHS–Other than NIH.

HHS–National Institutes of Health (NIH) Only—Report financial support received from the following organizations within the National Institutes of Health (NIH):

- John E. Fogarty International Center
- National Cancer Institute
- National Center for Complementary and Alternative Medicine
- National Center on Minority Health and Health Disparities
- National Center for Research Resources
- National Eye Institute
- National Heart, Lung, and Blood Institute
- National Human Genome Research Institute
- National Institute of Allergy and Infectious Diseases
- National Institute of Arthritis and Musculoskeletal and Skin Diseases
- National Institute of Biomedical Imaging and Bioengineering
- National Institute of Child Health and Human Development
- National Institute of Dental and Craniofacial Research
- National Institute of Diabetes and Digestive and Kidney Diseases
- National Institute of Environmental Health Sciences
- National Institute of General Medical Sciences
- National Institute of Mental Health
- National Institute of Neurological Disorders and Stroke
- National Institute of Nursing Research
- National Institute on Aging
- National Institute on Alcohol Abuse and Alcoholism
- National Institute on Deafness and Other Communication Disorders
- National Institute on Drug Abuse
- National Library of Medicine

HHS–Other than NIH—Other than NIH, the U.S. Department of Health and Human Services (HHS) includes the following organizations:

- Agency for Healthcare Research and Quality
- Centers for Disease Control and Prevention
- Health Resources and Services Administration
- National Institute for Occupational Safety and Health
- Substance Abuse and Mental Health Services Administration
- U.S. Food and Drug Administration

Highest Degree Offered—The highest degree granted (master's or PhD) by the unit.

Hispanic/Latino Ethnicity, one or more races—Only report ethnicity for U.S. citizens (including those from Puerto Rico and U.S. territories). All foreign nationals holding temporary visas should be reported in Row A. Include all individuals of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race. Count all individuals who are Hispanic/Latino or Hispanic/Latino and any other race(s) in this category.

ID—A unique identification assigned to each user for the purpose of logging into the GSS online data collection system. Also referred as User ID.

Institutional, State/Local Government Support—Financial support (such as stipends or tuition) provided by the institution or state or local governments. This category includes students receiving tuition waivers.

Largest or Primary Source of Support—The source of funds that provides the largest amount (highest percentage) of financial support for each graduate student or postdoc. When determining the largest source of support for graduate students, consider all graduate school academic expenses (tuition, fees, etc.). If a student or postdoc is supported by two or more equal sources of support, select one as the primary.

Largest or Primary Mechanism of Support—The mechanism of funding that provides the largest amount (highest percentage) of financial support for each graduate student or postdoc. If a student or postdoc is supported by two or more equal mechanisms of support, select one as the primary.

National Aeronautics and Space Administration (NASA)—Report individuals who receive financial aid from this agency.

National Science Foundation (NSF)—Financial support from the U.S. National Science Foundation (NSF) fellowships and traineeships, as well as support under NSF research grants.

Nonfaculty Researchers—All doctorate-holding researchers who (a) are not considered either postdoctoral researchers or members of the faculty and (b) are involved principally in science and engineering or health research activities. Also referred to as Other Doctorate-Holding Nonfaculty Researchers.

Nonfederal Sources of Support—Support from state and local government; support from **your** institution, such as tuition waivers and stipends; support from foreign sources, such as foreign governments, foreign firms, and agencies of the United Nations; and other U.S. sources, such as support from nonprofit institutions, private industry, and all other nonfederal U.S. sources.

Non-Hispanic/Latino ethnicity—Count only individuals who are ***not*** of Hispanic or Latino descent in Rows C–I. Individuals who are Hispanic/Latino, or Hispanic/Latino and any other race should be counted in Row B.

- **One race, American Indian or Alaska Native**—A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment
- **One race, Asian**—A person of only one race having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam
- **One race, Black or African American**—A person of only one race having origins in any of the black racial groups of Africa
- **One race, Native Hawaiian or Other Pacific Islander**—A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands
- **One race, White**—A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa
- **More than one race reported (non-Hispanic/Latino)**—A person reporting two or more of the race categories listed above. Individuals who report being Hispanic/Latino and one or more race, should be reported in Row B instead.

Non-U.S. sources—Funding from non-U.S. sources, including foreign governments, foreign companies, and specialized agencies of the United Nation.

Organizational Unit (Unit)—This term refers to the names of the organizational units where graduate students, postdoctoral researchers, and doctorate-holding nonfaculty researchers are enrolled and/or work. A unit can be a teaching unit, research unit, or both. Also see Research Unit and Teaching Unit.

Other Doctorate-Holding Nonfaculty Researchers— All doctorate-holding researchers who (a) are not considered either postdoctoral researchers or members of the faculty and (b) are involved principally in science and engineering or health research activities. Also referred to as Nonfaculty Researcher.

Other Federal sources—Financial support from U.S. federal agencies not listed elsewhere. Examples are the Fulbright program (State Department), the GI Bill (Department of Veterans Affairs) and various programs in the Department of Education.

Other support—All other mechanisms of support for graduate students or postdocs.

Other U.S. sources—Financial support from industrial firms, nonprofit institutions (e.g., independent research institutes, professional societies, philanthropic foundations), and all other sources of support originating within the United States. It does not include loans, family money, personal savings used by individuals supporting themselves, or federal or academic institutional sources of support.

Part-Time Graduate Student—Use your own institution's policy and definition to count part-time students.

Password—Used with the user ID for the purpose of logging into the GSS Web survey. The password may be changed by the user by clicking on "Change password" in the menu at the top of the screen. The new password must be at least 8 characters in length and include a combination of upper- and lowercase letters, numbers, and symbols. School Coordinators can resend password and ID information to unit respondents on the Send or Resend ID/Password screen. See User ID.

Personal resources (for Postdocs)—The personal and family financial resources, including federal and other loans.

Postdoc Coordinator—Individual responsible for submitting the postdoc portion of the survey to NSF.

Postdoctoral Researcher or Postdoc—The definition of a postdoc varies by institution. Please use your institution's definition of a postdoc. NSF defines a postdoc as meeting both of the following qualifications:

1. Holds a recent doctoral degree, generally awarded within the last 5–7 years, such as
   - PhD or equivalent (e.g., ScD or DEng) **or**
   - First professional degree in a medical or
   - related field (MD, DDS, DO, DVM) **or**
   - Foreign degree equivalent to a U.S. doctoral degree
2. Has a limited-term appointment, generally no more than 5–7 years,
   - Primarily for training in research or scholarship **and**
   - Working under the supervision of a senior scholar in a unit affiliated with your institution.

Professional Degree (for Postdocs)—PhD equivalent medical degrees, such as MD, DO, DVM, DDS, DNP, DPM, PharmD, PsyD, DMD, ND, DC, OD, DPT, AuD, OTD, DScPT.

Puerto Rico and U.S. Territories—U.S. territories include American Samoa, Guam, Federated States of Micronesia, the Northern Marianas, and the U.S. Virgin Islands.

Race—Only report race for U.S. citizens (including those from Puerto Rico and U.S. territories) and permanent residents. All foreign nationals holding temporary visas should be reported in Row A. The U.S. Office of Management and Budget defines race separately from ethnicity (please see entry for Ethnicity and Hispanic/Latino).The GSS survey uses the following definitions of race:

- **One race, American Indian or Alaska Native**—A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment
- **One race, Asian**—A person of only one race having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam
- **One race, Black or African American**—A person of only one race having origins in any of the black racial groups of Africa
- **One race, Native Hawaiian or Other Pacific Islander**—A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands
- **One race, White**—A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa
- **More than one race reported (non-Hispanic/ Latino)—**Individuals reporting two or more of the race categories listed above. Individuals who report being Hispanic/Latino and one or more race, should be reported in Row B instead.

Race/ethnicity unknown or not stated—Use this category if neither the race nor the ethnicity of the individual is known. If the race is known, but the ethnicity is unknown, report the individual by race. If the individual is Hispanic or Latino but the race is unknown, report the individual as Hispanic/Latino.

Research Assistantships—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to research assistant activities.

Research Grant—A financial assistance award given to an organization or an individual postdoc that supports specific research goals.

Research Unit—Research centers, health care facilities, and other organizations at the academic institution that appoint postdoctoral researchers and/or employ doctorate-holding nonfaculty researchers. Also see Organizational Unit and Teaching Unit.

School Coordinator—Person responsible for completing the GSS for the entire school or a portion of the institution.

Self-Support—Report students primarily supported by loans (including federal loans) or personal or family financial contributions.

Student's own resources—The personal and family financial resources, and federal and other loans.

Teaching Assistantships—A financial award given to a graduate student where most of the student's responsibilities are devoted primarily to teaching assistant activities.

Teaching Unit—Departments or programs that grant graduate-level research-oriented degrees including master's or PhD or equivalent degrees (i.e., ScD, DEng). Do not include units that grant only professional degrees. Also see Research Unit and Organizational Unit.

Traineeships—A financial award given to a graduate student or a postdoc selected by the institution.

Unit—See Organizational Unit.

Unit Respondent—Person(s) responsible for reporting unit data to the School Coordinator.

Unknown or not stated—Use this category if the sources of financial support for the postdoc is unknown or cannot be determined.

User ID—A unique identification assigned to each user for the purpose of logging into the GSS online data collection system. Also referred to as ID.

U.S. Citizens and Permanent Residents—U.S. citizens, including those from Puerto Rico and the U.S. territories, and permanent residents holding green cards.

THANK YOU

Please submit the information on this worksheet via the GSS Web survey at http://gss2010.org

or

Return your completed worksheet(s) to your School Coordinator in time to meet February 28, 2011 deadline

If your School Coordinator asks you to return your worksheet(s) directly by mail, please send to:

NSF-NIH Graduate Student Survey
c/o RTI International
3040 Cornwallis Rd, P.O. Box 12194
Research Triangle Park, NC 27709-2194

Questions?

Call Jamie Friedman toll-free at 1-866-558-0781
or e-mail us at gss@rti.org

Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) Fall 2010

National Science Foundation & National Institutes of Health

2010 GSS Code List
Complete List of GSS Eligible Fields and Codes

Contents:

Agricultural Science Fields 1
Architecture Fields 2
Biological Science Fields 2
Communication Fields 3
Computer Science Fields 3
Earth, Atmospheric, and Ocean Science Fields 3
Engineering Fields 3
Family and Consumer Sciences/Human Sciences Fields 4
Health Fields 4
Mathematical Science Fields 6
Neuroscience Fields 6
Physical Science Fields 6
Psychology Fields 7
Social Science Fields 7
Multidisciplinary/Interdisciplinary Studies 8

Do not include certificate programs or units that only award professional degrees, such as AuD, DDS, DN, DNP, DO, DPM, DPT, DScPT, JD, MD, ND, OD, OTD, PharmD, or PsyD.

Field	GSS Code	Additional Program Titles	
Agricultural Science Fields (see also 102 and 901)			
Agricultural Economics	901	Natural Resource Economics	
Agricultural Sciences	501	Agricultural and Horticultural Plant Breeding	Horticultural Science
		Agricultural Animal Breeding	International Agriculture
		Agriculture, Agriculture Operations and Related Sciences	Land Use Planning and Management/Development
		Agronomy and Crop Science	Livestock Management
		Animal Health	Natural Resources Management and Policy
		Animal Nutrition	Natural Resources/Conservation
		Animal Sciences	Ornamental Horticulture
		Dairy Science	Plant Protection and Integrated Pest Management
		Environmental Science	Plant Sciences
		Environmental Studies	Poultry Science
		Fishing and Fisheries Sciences and Management	Range Science and Management
		Food Science	Soil Chemistry and Physics
		Food Science and Technology	Soil Microbiology
		Food Technology and Processing	Soil Science and Agronomy
		Forest Management/Forest Resources Management	Soil Sciences
			Urban Forestry
		Forest Resources Production and Management	Water, Wetlands, and Marine Resources Management
		Forest Sciences and Biology	Wildlife and Wildlands Science and Management
		Forestry	

Field	GSS Code	Additional Program Titles	
Architecture Fields			
Architecture	940	Landscape Architecture	
Biological Science Fields			
Anatomy	601		
Biochemistry	602	Biochemistry/Biophysics and Molecular Biology	
Biology	603	Biological Sciences	
Biometry and Epidemiology	604	Bioinformatics Biomathematics Biometry/Biometrics	Biostatistics Medical Informatics
Biophysics	605		
Botany	606	Plant Biology Plant Molecular Biology	Plant Pathology/Phytopathology Plant Physiology
Cell and Molecular Biology	607	Cell Biology and Anatomy Cell/Cellular and Molecular Biology Cell/Cellular Biology and Histology Developmental Biology and Embryology	Molecular Biochemistry Molecular Biophysics Neuroanatomy Photobiology Structural Biology
Ecology	608		
Entomology and Parasitology	609		
Genetics	610	Animal Genetics Evolutionary Biology Human/Medical Genetics	Microbial and Eukaryotic Genetics Molecular Genetics Plant Genetics
Microbiology, Immunology, and Virology	611	Medical Microbiology and Bacteriology Mycology	
Neuroscience	950		
Nutrition	612	Foods, Nutrition Human Nutrition	Nutrition Science
Pathology	613	Experimental Pathology	
Pharmacology	614	Environmental Toxicology Molecular Pharmacology Molecular Toxicology	Neuropharmacology Pharmacology and Toxicology Toxicology
Physiology	615	Cell Physiology Exercise Physiology Molecular Physiology Neurobiology and Neurophysiology	Oncology and Cancer Biology Physiology, Pathology, and Related Sciences Reproductive Biology Vision Science/Physiological Optics
Zoology	616	Animal Behavior and Ethology Animal Biology	Animal Physiology Wildlife Biology
Biosciences, not elsewhere classified	617	Aquatic Biology/Limnology Bioethics/Medical Ethics Biological and Life Sciences, Other Biomedical Sciences Biotechnology Conservation Biology	Ecology, Evolution, Systematics and Population Biology Environmental Biology Medical Illustration Population Biology Systematic Biology/Biological Systematics

Field	GSS Code	Additional Program Titles	
Communication Fields			
Communication	930	Communication and Media Studies Communication Studies/Speech Communication and Rhetoric Digital Communication and Media/Multimedia	Health Communication Mass Communication/Media Studies Organizational Communication Political Communication
Computer Science Fields			
Computer Science (exclude DCS)	401	Artificial Intelligence and Robotics Computer and Information Sciences Computer and Information Systems Security Computer Graphics Computer Systems Analysis/Analyst	Computer Systems Networking and Telecommunications Data Modeling/Warehousing and Database Administration Information Science/Studies Information Technology Management Information Systems Management Science
Earth, Atmospheric, and Ocean Science Fields			
Atmospheric Sciences	301	Atmospheric Chemistry and Climatology	Atmospheric Physics and Dynamics Meteorology
Geosciences	302	Geochemistry Geochemistry and Petrology Geology/Earth Science	Geophysics and Seismology Hydrology and Water Resources Science Paleontology
Ocean Sciences	303	Marine Biology and Biological Oceanography	Oceanography, Chemical and Physical
Earth, Atmospheric, and Ocean Sciences, not elsewhere classified	304		
Engineering Fields			
Aerospace Engineering	101	Aeronautical Engineering	Astronautical Engineering
Agricultural Engineering	102	Bioengineering	Biological Engineering
Biomedical Engineering	103	Biomedical/Medical Engineering	Biomedical Technology/ Technician (exclude master's)
Chemical Engineering	104	Polymer/Plastics Engineering	Wood Science and Wood Products/Pulp and Paper Technology
Civil Engineering	105	Architectural Engineering Environmental/Environmental Health Engineering Geotechnical Engineering Structural Engineering	Surveying Engineering Transportation and Highway Engineering Water Resources Engineering
Electrical Engineering	106	Communication Engineering Computer Engineering Computer Hardware Engineering	Computer Software Engineering Electronics Engineering
Engineering Science & Physics	107	Engineering Physics	Engineering Science
Industrial/Manufacturing Engineering	108	Operations Research	Systems Engineering
Mechanical Engineering	109	Engineering Mechanics	

Engineering Fields continued next page

Field	GSS Code	Additional Program Titles	
Engineering Fields – continued			
Metallurgical and Materials Engineering	110	Ceramic Sciences and Engineering Materials Science	Textile Science Textile Sciences and Engineering
Mining Engineering	111	Geological/Geophysical Engineering Mineral Engineering	
Nuclear Engineering	112		
Petroleum Engineering	113		
Engineering, not elsewhere classified	114	Construction Engineering Forest Engineering Naval Architecture and Marine Engineering	Ocean Engineering
Family and Consumer Sciences/Human Sciences Fields			
Family and Consumer Sciences/Human Sciences	920	Adult Development and Aging Business Family and Consumer Sciences/Human Sciences Child Development Consumer Economics	Family Systems Housing and Human Environments Human Development and Family Studies
Health Fields (see also GSS Code 103)			
Anesthesiology	701	Nurse Anesthetist (exclude master's)	
Cardiology	702	Cardiovascular Science	Cardiovascular Diseases
Communication Disorders Sciences	723	Audiology/Audiologist and Hearing Sciences (exclude AuD) Audiology/Audiologist and Speech Language Pathology/ Pathologist	Communication Disorders Sciences and Services, Other Speech-Language Pathology/Pathologist
Dental Sciences	718	Advanced/Graduate Dentistry and Oral Sciences, Other (exclude DDS) Dental Clinical Sciences, General Dental Hygiene/Hygienist (exclude master's) Dental Materials Dental Public Health and Education	Endodontics/Endodontology Oral Biology and Oral Pathology Oral/Maxillofacial Surgery Orthodontics/Orthodontology Pediatric Dentistry/Pedodontics Periodontics/Periodontology Prosthodontics/Prosthodontology
Endocrinology	704	Pediatric Endocrinology	
Gastroenterology	705		
Hematology	706	Pediatric Hematology	
Neurology	707		
Health Fields continued next page			

Field	GSS Code	Additional Program Titles	
Health Fields (see also GSS Code 103) – continued			
Nursing Science (research master's & PhD only)	719		
Nursing (exclude master's & DNP)	719	Adult Health Nurse/Nursing (exclude master's) Clinical Nurse Specialist (exclude master's) Critical Care Nursing (exclude master's) Family Practice Nurse/Nurse Practitioner (exclude master's) Maternal/Child Health and Neonatal Nurse/Nursing (exclude master's) Nurse Midwife/Nursing Midwifery (exclude master's) Nursing – Registered Nurse Training (exclude master's) Nursing Administration (exclude master's)	Nursing, Other (exclude master's) Occupational and Environmental Health Nursing (exclude master's) Pediatric Nurse/Nursing (exclude master's) Perioperative/Operating Room and Surgical Nurse/Nursing (exclude master's) Psychiatric/Mental Health Nurse/Nursing (exclude master's Public Health/Community Nurse/Nursing (exclude master's)
Obstetrics and Gynecology	708		
Oncology/Cancer Research	703	Pediatric Oncology	
Ophthalmology (exclude OD)	709		
Otorhinolaryngology	710		
Pediatrics	711	Prematurity & Newborn	
Pharmaceutical Sciences (exclude PharmD)	720	Clinical and Industrial Drug Development Industrial and Physical Pharmacy and Cosmetic Sciences Medicinal and Pharmaceutical Chemistry Natural Products Chemistry and Pharmacognosy Pharmaceutics and Drug Design	Pharmacoeconomics/ Pharmaceutical Economics Pharmacy Administration/Policy/ Regulatory Affairs (exclude master's) Pharmacy, Pharmaceutical Sciences, and Administration, Other (exclude master's)
Preventive Medicine and Community Health	712	Environmental Health Health Services/Allied Health/Health Sciences Health/Medical Physics International Public Health/ International Health	Maternal and Child Health Occupational Health and Industrial Hygiene Public Health Education and Promotion Public Health Public Health Medicine
Psychiatry	713	Behavioral Medicine (clinical)	Child Psychiatry
Pulmonary Disease	714		
Radiology	715	Radiation Biology/Radiobiology Radiation Oncology/Therapeutic Radiology	Radiation Protection/Health Physics Technician
Surgery	716	Orthopedics/Orthopedic Surgery	
Health Fields continued next page			

Field	GSS Code	Additional Program Titles	
Health Fields (see also GSS Code 103) – continued			
Veterinary Sciences (exclude DVM)	721	Comparative and Laboratory Animal Medicine Large Animal/Food Animal & Equine Surgery/Medicine Small/Companion Animal Surgery and Medicine Veterinary Anatomy Veterinary Biomedical and Clinical Sciences Veterinary Biomedicine and Clinical Sciences	Veterinary Infectious Diseases Veterinary Medicine Veterinary Microbiology and Immunobiology Veterinary Pathology and Pathobiology Veterinary Physiology Veterinary Preventive Med Epidemiology/Public Hlth Veterinary Toxicology and Pharmacology
Clinical Medicine, not elsewhere classified	717	Aerospace Medicine Allergy Clinical Laboratory Medicine Clinical Laboratory Science/Medical Technology/ Technologist Clinical/Medical Laboratory Science and Allied Professions, Other (exclude master's) Complementary and Alternative Medicine Connective Tissue Diseases Critical Care Medicine Dermatology Diabetes Emergency Medicine	Family Medicine Infectious Diseases Internal Medicine Gene Therapy HIV/AIDS Liver Diseases Medical Scientist (exclude MD) Metabolic diseases Nephrology Neurology/Neurosurgery Occupational Medicine Palliative Care Physical Medicine and Rehabilitation/Physiatry Trauma Urology
Health-Related, not elsewhere classified	722	Assistive/Augmentative Technology and Rehabilitation Engineering Athletic Training/Trainer - Sports Medicine Exercise Science/Physiology and Movement Studies	Health Professions and Related Clinical Sciences, Other (exclude master's) Occupational Therapy/Therapist (exclude master's and OTD) Physical Therapy/Therapist (exclude master's and DPT)
Interdisciplinary – see Multidisciplinary/Interdisciplinary Studies on page 8			
Mathematical Science Fields			
Mathematics and Applied Mathematics	402	Algebra and Number Theory Analysis and Functional Analysis Computational Mathematics	Geometry/Geometric Analysis Topology and Foundations
Statistics	403	Actuarial Science Business Statistics	Mathematical Statistics and Probability
Multidisciplinary – see Multidisciplinary/Interdisciplinary Studies on page 8			
Neuroscience Fields			
Neuroscience	950		
Physical Science Fields			
Astronomy	201	Astrophysics	Planetary Astronomy and Science
Biochemistry	602	Biochemistry/Biophysics and Molecular Biology	
Physical Science Fields continued next page			

Field	GSS Code	Additional Program Titles	
Physical Science Fields – continued			
Chemistry	202	Analytical Chemistry Chemical Physics Inorganic Chemistry Organic Chemistry	Physical and Theoretical Chemistry Polymer Chemistry
Physics (see also 605)	203	Acoustics Atomic/Molecular Physics Elementary Particle Physics Nuclear Physics Optics/Optical Sciences	Plasma and High-Temperature Physics Solid State and Low-Temperature Physics Theoretical and Mathematical Physics
Physical Sciences, not elsewhere classified	204		
Psychology Fields			
Clinical Psychology (exclude PsyD)	803	Clinical Child Psychology	
Psychology, Combined	801	Psychology, General	
Psychology, except Clinical	802	Art Therapy (exclude master's) Cognitive Psychology and Psycholinguistics Community Psychology Comparative Psychology Counseling Psychology Developmental and Child Psychology Educational Psychology Environmental Psychology Experimental Psychology Family Psychology Forensic Psychology	Geropsychology Health Psychology Industrial and Organizational Psychology Personality Psychology Physiological Psychology/Psychobiology Psychology, Other Psychometrics and Quantitative Psychology Psychopharmacology School Psychology Social Psychology
Social Science Fields			
Agricultural Economics	901	Natural Resource Economics	
Anthropology (Cultural and Social)	902	Archeology	Physical Anthropology
Economics	903	Applied Economics Business/Managerial Economics Development Economics and International Development	Econometrics and Quantitative Economics International Economics
Geography	904	Cartography	
History and Philosophy of Science (combined program)	905	History and Philosophy of Science/Technology	
Linguistics	906	Linguistics of ASL, and Other Sign Languages	
Political Science/Public Administration	907	American Government and Politics Canadian Government and Politics	International Relations and Affairs Political Science and Government Public Policy Analysis
Sociology	908	Demography and Population Studies	
Sociology/Anthropology (combined program)	909		
Social Science Fields continued next page			

Field	GSS Code	Additional Program Titles	
Social Science Fields – continued			
Social Sciences, not elsewhere classified	910	African Studies African-American/Black Studies American Indian/Native American Studies American/United States Studies/Civilization Area Studies Asian Studies/Civilization Asian-American Studies Balkans Studies Baltic Studies Canadian Studies Caribbean Studies Central/Middle and Eastern European Studies Chinese Studies Commonwealth Studies Criminal Justice/Safety Studies Criminalistics and Criminal Science Criminology East Asian Studies Ethnic, Cultural Minority, and Gender Studies, Other European Studies/Civilization Forensic Science and Technology French Studies Gay/Lesbian Studies	German Studies Hispanic-American, Puerto Rican, Mexican American Studies Italian Studies Japanese Studies Korean Studies Labor Studies Latin American Studies Near and Middle Eastern Studies Organizational Behavior Studies Pacific Area/Pacific Rim Studies Polish Studies Regional Studies (US, Canadian, Foreign) Russian Studies Scandinavian Studies Slavic Studies South Asian Studies Southeast Asian Studies Spanish and Iberian Studies Tibetan Studies Ukraine Studies Ural-Altaic and Central Asian Studies Urban Affairs/Studies Western European Studies Women's Studies
Multidisciplinary/Interdisciplinary Studies			
Multidisciplinary/ Interdisciplinary Studies	980	Accounting and Computer Science (combined program) Behavioral Sciences Biological and Physical Sciences Biopsychology Cognitive Science Gerontology Holocaust and Related Studies Intercultural/Multicultural and Diversity Studies International/Global Studies	Mathematics and Computer Science (combined program) Natural Sciences Peace Studies and Conflict Resolution Science, Technology and Society Systems Science and Theory

Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) Fall 2010

National Science Foundation & National Institutes of Health

2010 GSS CROSSWALK

Between 2000 NCES Classification of Instructional Programs (CIP) Codes and GSS Codes

Please continue to use this CIP-GSS crosswalk. This is the same crosswalk that has been used in prior years, based on the 2000 CIP.

Do not include certificate programs or units that only award professional degrees, such as AuD, DDS, DN, DNP, DO, DPM, DPT, DScPT, JD, MD, ND, OD, OTD, PharmD, or PsyD.

2000 CIP Code	GSS Code	Description of CIP Field
01.0103	901	Agricultural Economics
01.0603	501	Ornamental Horticulture
01.0701	501	International Agriculture
01.0901	501	Animal Sciences, General
01.0902	501	Agricultural Animal Breeding
01.0903	501	Animal Health
01.0904	501	Animal Nutrition
01.0905	501	Dairy Science
01.0906	501	Livestock Management
01.0907	501	Poultry Science
01.0999	501	Animal Sciences, Other
01.1001	501	Food Science
01.1002	501	Food Technology and Processing
01.1099	501	Food Science and Technology, Other
01.1101	501	Plant Sciences, General
01.1102	501	Agronomy and Crop Science
01.1103	501	Horticultural Science
01.1104	501	Agricultural and Horticultural Plant Breeding
01.1105	501	Plant Protection and Integrated Pest Management
01.1106	501	Range Science and Management
01.1199	501	Plant Sciences, Other
01.1201	501	Soil Science and Agronomy, General
01.1202	501	Soil Chemistry and Physics
01.1203	501	Soil Microbiology
01.1299	501	Soil Sciences, Other
01.9999	501	Agriculture, Agriculture Operations and Related Sciences, Other
03.0101	501	Natural Resources/Conservation, General
03.0103	501	Environmental Studies (GSS Codes 304, 907, 910 also permitted)
03.0104	501	Environmental Science (GSS Codes 304, 617 also permitted)

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
03.0199	501	Natural Resources Conservation and Research, Other
03.0201	501	Natural Resources Management and Policy
03.0204	901	Natural Resource Economics
03.0205	501	Water, Wetlands, and Marine Resources Management
03.0206	501	Land Use Planning and Management/Development
03.0299	501	Natural Resources Management and Policy, Other
03.0301	501	Fishing and Fisheries Sciences and Management
03.0501	501	Forestry, General
03.0502	501	Forest Sciences and Biology
03.0506	501	Forest Management/Forest Resources Management
03.0508	501	Urban Forestry
03.0509	104	Wood Science and Wood Products/Pulp and Paper Technology
03.0510	501	Forest Resources Production and Management
03.0599	501	Forestry, Other
03.0601	501	Wildlife and Wildlands Science and Management
03.9999	501	Natural Resources and Conservation, Other
04.0201	940	Architecture
04.0601	940	Landscape Architecture
05.0101	910	African Studies
05.0102	910	American/United States Studies/Civilization
05.0103	910	Asian Studies/Civilization
05.0104	910	East Asian Studies
05.0105	910	Central/Middle and Eastern European Studies
05.0106	910	European Studies/Civilization
05.0107	910	Latin American Studies
05.0108	910	Near and Middle Eastern Studies
05.0109	910	Pacific Area/Pacific Rim Studies
05.0110	910	Russian Studies
05.0111	910	Scandinavian Studies
05.0112	910	South Asian Studies
05.0113	910	Southeast Asian Studies
05.0114	910	Western European Studies
05.0115	910	Canadian Studies
05.0116	910	Balkans Studies
05.0117	910	Baltic Studies
05.0118	910	Slavic Studies
05.0119	910	Caribbean Studies
05.0120	910	Ural-Altaic and Central Asian Studies

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
05.0121	910	Commonwealth Studies
05.0122	910	Regional Studies (U.S., Canadian, Foreign)
05.0123	910	Chinese Studies
05.0124	910	French Studies
05.0125	910	German Studies
05.0126	910	Italian Studies
05.0127	910	Japanese Studies
05.0128	910	Korean Studies
05.0129	910	Polish Studies
05.0130	910	Spanish and Iberian Studies
05.0131	910	Tibetan Studies
05.0132	910	Ukraine Studies
05.0199	910	Area Studies, Other
05.0201	910	African-American/Black Studies
05.0202	910	American Indian/Native American Studies
05.0203	910	Hispanic-American, Puerto Rican, Mexican American Studies
05.0206	910	Asian-American Studies
05.0207	910	Women's Studies
05.0208	910	Gay/Lesbian Studies
05.0299	910	Ethnic, Cultural Minority, and Gender Studies, Other
09.0101	930	Communication Studies/Speech Communication and Rhetoric
09.0102	930	Mass Communication/Media Studies
09.0199	930	Communication and Media Studies, Other
09.0702	930	Digital Communication and Media/Multimedia
09.0901	930	Organizational Communication, General
09.0904	930	Political Communication
09.0905	930	Health Communication
11.0101	401	Computer and Information Sciences, General (exclude DCS)
11.0102	401	Artificial Intelligence and Robotics (exclude DCS)
11.0103	401	Information Technology (exclude DCS)
11.0199	401	Computer and Information Sciences, Other (exclude DCS)
11.0401	401	Information Science/Studies (exclude DCS)
11.0501	401	Computer Systems Analysis/Analyst (exclude DCS)
11.0701	401	Computer Science (exclude DCS)
11.0802	401	Data Modeling/Warehousing and Database Administration (exclude DCS)
11.0803	401	Computer Graphics (exclude DCS)
11.0901	401	Computer Systems Networking and Telecommunications (exclude DCS)
11.1003	401	Computer and Information Systems Security (exclude DCS)

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
14.0101	114	Engineering, General
14.0201	101	Aerospace, Aeronautical, and Astronautical Engineering
14.0301	102	Agricultural/Biological Engineering and Bioengineering
14.0401	105	Architectural Engineering
14.0501	103	Biomedical/Medical Engineering
14.0601	110	Ceramic Sciences and Engineering
14.0701	104	Chemical Engineering
14.0801	105	Civil Engineering
14.0802	105	Geotechnical Engineering
14.0803	105	Structural Engineering
14.0804	105	Transportation and Highway Engineering
14.0805	105	Water Resources Engineering
14.0899	105	Civil Engineering, Other
14.0901	106	Computer Engineering
14.0902	106	Computer Hardware Engineering
14.0903	106	Computer Software Engineering
14.0999	106	Computer Engineering, Other
14.1001	106	Electrical, Electronics and Communication Engineering
14.1101	109	Engineering Mechanics
14.1201	107	Engineering Physics
14.1301	107	Engineering Science
14.1401	105	Environmental/Environmental Health Engineering
14.1801	110	Materials Engineering
14.1901	109	Mechanical Engineering
14.2001	110	Metallurgical Engineering
14.2101	111	Mining and Mineral Engineering
14.2201	114	Naval Architecture and Marine Engineering
14.2301	112	Nuclear Engineering
14.2401	114	Ocean Engineering
14.2501	113	Petroleum Engineering
14.2701	108	Systems Engineering
14.2801	110	Textile Sciences and Engineering
14.3101	110	Materials Science
14.3201	104	Polymer/Plastics Engineering
14.3301	114	Construction Engineering
14.3401	114	Forest Engineering
14.3501	108	Industrial Engineering
14.3601	108	Manufacturing Engineering

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
14.3701	108	Operations Research
14.3801	105	Surveying Engineering
14.3901	111	Geological/Geophysical Engineering
14.9999	114	Engineering, Other
15.0401	103	Biomedical Technology/Technician (exclude master's)
16.0102	906	Linguistics
16.1602	906	Linguistics of ASL, and Other Sign Languages
19.0101	920	Family and Consumer Sciences/Human Sciences, General
19.0201	920	Business Family and Consumer Sciences/Human Sciences
19.0402	920	Consumer Economics
19.0501	612	Foods, Nutrition
19.0504	612	Human Nutrition
19.0601	920	Housing and Human Environments, General
19.0701	920	Human Development and Family Studies, General
19.0702	920	Adult Development and Aging
19.0704	920	Family Systems
19.0706	920	Child Development
19.0904	110	Textile Science
26.0101	603	Biology/Biological Sciences, General
26.0102	617	Biomedical Sciences, General
26.0202	602	Biochemistry
26.0203	605	Biophysics
26.0204	607	Molecular Biology
26.0205	607	Molecular Biochemistry
26.0206	607	Molecular Biophysics
26.0207	607	Structural Biology
26.0208	607	Photobiology
26.0209	715	Radiation Biology/Radiobiology
26.0210	602	Biochemistry/Biophysics and Molecular Biology (GSS Codes 605, 607 also permitted)
26.0299	602	Biochemistry, Biophysics and Molecular Biology, Other (GSS Codes 605, 607 also permitted)
26.0301	606	Botany/Plant Biology
26.0305	606	Plant Pathology/Phytopathology
26.0307	606	Plant Physiology
26.0308	606	Plant Molecular Biology
26.0399	606	Botany/Plant Biology, Other
26.0401	607	Cell/Cellular Biology and Histology
26.0403	601	Anatomy

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
26.0404	607	Developmental Biology and Embryology
26.0405	607	Neuroanatomy
26.0406	607	Cell/Cellular and Molecular Biology
26.0407	607	Cell Biology and Anatomy (GSS Code 601 also permitted)
26.0499	607	Cell/Cellular Biology and Anatomical Sciences, Other (GSS Code 601 also permitted)
26.0502	611	Microbiology, General
26.0503	611	Medical Microbiology and Bacteriology
26.0504	611	Virology
26.0505	609	Parasitology
26.0506	611	Mycology
26.0507	611	Immunology
26.0599	611	Microbiological Sciences and Immunology, Other
26.0701	616	Zoology/Animal Biology
26.0702	609	Entomology
26.0707	616	Animal Physiology
26.0708	616	Animal Behavior and Ethology
26.0709	616	Wildlife Biology
26.0799	616	Zoology/Animal Biology, Other
26.0801	610	Genetics
26.0802	610	Molecular Genetics
26.0803	610	Microbial and Eukaryotic Genetics
26.0804	610	Animal Genetics
26.0805	610	Plant Genetics
26.0806	610	Human/Medical Genetics
26.0899	610	Genetics, Other
26.0901	615	Physiology, General
26.0902	615	Molecular Physiology
26.0903	615	Cell Physiology
26.0904	704	Endocrinology
26.0905	615	Reproductive Biology (GSS Codes 601, 616 also permitted)
26.0906	615	Neurobiology and Neurophysiology (GSS Codes 602, 603 also permitted)
26.0907	702	Cardiovascular Science
26.0908	615	Exercise Physiology
26.0909	615	Vision Science/Physiological Optics
26.0910	613	Pathology/Experimental Pathology
26.0911	615	Oncology and Cancer Biology
26.0999	615	Physiology, Pathology, and Related Sciences, Other (GSS Code 613 also permitted)

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
26.1001	614	Pharmacology
26.1002	614	Molecular Pharmacology
26.1003	614	Neuropharmacology
26.1004	614	Toxicology
26.1005	614	Molecular Toxicology
26.1006	614	Environmental Toxicology
26.1007	614	Pharmacology and Toxicology
26.1099	614	Pharmacology and Toxicology, Other
26.1101	604	Biometry/Biometrics
26.1102	604	Biostatistics
26.1103	604	Bioinformatics
26.1199	604	Biomathematics and Bioinformatics, Other
26.1201	617	Biotechnology
26.1301	608	Ecology
26.1302	303	Marine Biology and Biological Oceanography
26.1303	610	Evolutionary Biology
26.1304	617	Aquatic Biology/Limnology
26.1305	617	Environmental Biology
26.1306	617	Population Biology
26.1307	617	Conservation Biology
26.1308	617	Systematic Biology/Biological Systematics
26.1309	604	Epidemiology
26.1399	617	Ecology, Evolution, Systematics and Population Biology, Other
26.9999	617	Biological and Life Sciences, Other
27.0101	402	Mathematics
27.0102	402	Algebra and Number Theory
27.0103	402	Analysis and Functional Analysis
27.0104	402	Geometry/Geometric Analysis
27.0105	402	Topology and Foundations
27.0199	402	Mathematics, Other
27.0301	402	Applied Mathematics
27.0303	402	Computational Mathematics
27.0399	402	Applied Mathematics, Other
27.0501	403	Statistics
27.0502	403	Mathematical Statistics and Probability
27.0599	403	Statistics, Other
27.9999	402	Mathematics and Statistics, Other
30.0101	980	Biological and Physical Sciences

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
30.0501	980	Peace Studies, and Conflict Resolution
30.0601	980	Systems Science and Theory
30.0801	980	Mathematics and Computer Science (combined program)
30.1001	980	Biopsychology
30.1101	980	Gerontology
30.1501	980	Science, Technology and Society
30.1601	980	Accounting and Computer Science (combined program)
30.1701	980	Behavioral Sciences
30.1801	980	Natural Sciences
30.1901	612	Nutrition Science
30.2001	980	International/Global Studies
30.2101	980	Holocaust and Related Studies
30.2301	980	Intercultural/Multicultural and Diversity Studies
30.2401	950	Neuroscience
30.2501	980	Cognitive Science
30.9999	980	Multi-/Interdisciplinary Studies, Other
31.0505	722	Exercise Science/Physiology and Movement Studies
40.0101	204	Physical Sciences
40.0201	201	Astronomy
40.0202	201	Astrophysics
40.0203	201	Planetary Astronomy and Science
40.0299	201	Astronomy and Astrophysics, Other
40.0401	301	Atmospheric Sciences and Meteorology
40.0402	301	Atmospheric Chemistry and Climatology
40.0403	301	Atmospheric Physics and Dynamics
40.0404	301	Meteorology
40.0499	301	Atmospheric Sciences and Meteorology, Other
40.0501	202	Chemistry
40.0502	202	Analytical Chemistry
40.0503	202	Inorganic Chemistry
40.0504	202	Organic Chemistry
40.0506	202	Physical and Theoretical Chemistry
40.0507	202	Polymer Chemistry
40.0508	202	Chemical Physics
40.0599	202	Chemistry, Other
40.0601	302	Geology/Earth Science, General
40.0602	302	Geochemistry
40.0603	302	Geophysics and Seismology

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
40.0604	302	Paleontology
40.0605	302	Hydrology and Water Resources Science
40.0606	302	Geochemistry and Petrology
40.0607	303	Oceanography, Chemical and Physical
40.0699	302	Geological and Earth Sciences/Geosciences, Other
40.0801	203	Physics
40.0802	203	Atomic/Molecular Physics
40.0804	203	Elementary Particle Physics
40.0805	203	Plasma and High-Temperature Physics
40.0806	203	Nuclear Physics
40.0807	203	Optics/Optical Sciences
40.0808	203	Solid State and Low - Temperature Physics
40.0809	203	Acoustics
40.0810	203	Theoretical and Mathematical Physics
40.0899	203	Physics, Other
40.9999	204	Physical Sciences, Other
42.0101	801	Psychology, General
42.0201	803	Clinical Psychology (exclude PsyD)
42.0301	802	Cognitive Psychology and Psycholinguistics
42.0401	802	Community Psychology
42.0501	802	Comparative Psychology
42.0601	802	Counseling Psychology
42.0701	802	Developmental and Child Psychology
42.0801	802	Experimental Psychology
42.0901	802	Industrial and Organizational Psychology
42.1001	802	Personality Psychology
42.1101	802	Physiological Psychology/Psychobiology
42.1601	802	Social Psychology
42.1701	802	School Psychology
42.1801	802	Educational Psychology
42.1901	802	Psychometrics and Quantitative Psychology
42.2001	803	Clinical Child Psychology (exclude PsyD)
42.2101	802	Environmental Psychology
42.2201	802	Geropsychology
42.2301	802	Health Psychology
42.2401	802	Psychopharmacology
42.2501	802	Family Psychology
42.2601	802	Forensic Psychology

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
42.9999	802	Psychology, Other
43.0104	910	Criminal Justice/Safety Studies
43.0106	910	Forensic Science and Technology
43.0111	910	Criminalistics and Criminal Science
44.0401	907	Public Administration
44.0501	907	Public Policy Analysis
45.0101	910	Social Sciences, General
45.0201	902	Anthropology
45.0202	902	Physical Anthropology
45.0299	902	Anthropology, Other
45.0301	902	Archeology
45.0401	910	Criminology
45.0501	908	Demography and Population Studies
45.0601	903	Economics
45.0602	903	Applied Economics
45.0603	903	Econometrics and Quantitative Economics
45.0604	903	Development Economics and International Development
45.0605	903	International Economics
45.0699	903	Economics, Other
45.0701	904	Geography
45.0702	904	Cartography
45.0799	904	Geography, Other
45.0901	907	International Relations and Affairs
45.1001	907	Political Science and Government, General
45.1002	907	American Government and Politics
45.1003	907	Canadian Government and Politics
45.1099	907	Political Science and Government, Other
45.1101	908	Sociology
45.1201	910	Urban Affairs/Studies
45.9999	910	Social Sciences, Other
51.0000	712	Health Services/Allied Health/Health Sciences, General
51.0201	723	Communication Disorders, General
51.0202	723	Audiology/Audiologist and Hearing Sciences (exclude AuD)
51.0203	723	Speech-Language Pathology/Pathologist
51.0204	723	Audiology/Audiologist and Speech Language Pathology/Pathologist
51.0299	723	Communication Disorders Sciences and Services, Other
51.0501	718	Dental Clinical Sciences, General
51.0503	718	Oral Biology and Oral Pathology

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
51.0504	718	Dental Public Health and Education
51.0505	718	Dental Materials
51.0506	718	Endodontics/Endodontology
51.0507	718	Oral/Maxillofacial Surgery
51.0508	718	Orthodontics/Orthodontology
51.0509	718	Pediatric Dentistry/Pedodontics
51.0510	718	Periodontics/Periodontology
51.0511	718	Prosthodontics/Prosthodontology
51.0599	718	Advanced/Graduate Dentistry and Oral Sciences, Other (Exclude DDS)
51.0602	718	Dental Hygiene/Hygienist (exclude master's)
51.0913	722	Athletic Training/Trainer - Sports Medicine
51.0916	715	Radiation Protection/Health Physics Technician
51.1005	717	Clinical Laboratory Science/Medical Technology/Technologist
51.1099	717	Clinical/Medical Laboratory Science and Allied Professions, Other (exclude master's)
51.1401	717	Medical Scientist (Exclude MD)
51.1601	719	Nursing - Registered Nurse Training (exclude master's and DNP)
51.1602	719	Nursing Administration (exclude master's and DNP)
51.1603	719	Adult Health Nurse/Nursing (exclude master's and DNP)
51.1604	701	Nurse Anesthetist (exclude master's and DNP)
51.1605	719	Family Practice Nurse/Nurse Practitioner (exclude master's and DNP)
51.1606	719	Maternal/Child Health and Neonatal Nurse/Nursing (exclude master's and DNP)
51.1607	719	Nurse Midwife/Nursing Midwifery (exclude master's and DNP)
51.1608	719	Nursing Science (exclude DNP)
51.1609	719	Pediatric Nurse/Nursing (exclude master's and DNP)
51.1610	719	Psychiatric/Mental Health Nurse/Nursing (exclude master's and DNP)
51.1611	719	Public Health/Community Nurse/Nursing (exclude master's and DNP)
51.1612	719	Perioperative/Operating Room and Surgical Nurse/Nursing (exclude master's and DNP)
51.1616	719	Clinical Nurse Specialist (exclude master's and DNP)
51.1617	719	Critical Care Nursing (exclude master's and DNP)
51.1618	719	Occupational and Environmental Health Nursing (exclude master's and DNP)
51.1699	719	Nursing, Other (exclude master's and DNP)
51.2002	720	Pharmacy Administration/Policy/Regulatory Affairs (exclude master's and PharmD)
51.2003	720	Pharmaceutics and Drug Design (exclude PharmD)
51.2004	720	Medicinal and Pharmaceutical Chemistry (exclude PharmD)
51.2005	720	Natural Products Chemistry and Pharmacognosy (exclude PharmD)

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
51.2006	720	Clinical and Industrial Drug Development (exclude PharmD)
51.2007	720	Pharmacoeconomics/Pharmaceutical Economics (exclude PharmD)
51.2009	720	Industrial and Physical Pharmacy and Cosmetic Sciences (exclude PharmD)
51.2099	720	Pharmacy, Pharmaceutical Sciences, and Administration, Other (exclude master's and PharmD)
51.2201	712	Public Health, General
51.2202	712	Environmental Health
51.2205	712	Health/Medical Physics
51.2206	712	Occupational Health and Industrial Hygiene
51.2207	712	Public Health Education and Promotion
51.2208	712	Community Health and Preventive Medicine
51.2209	712	Maternal and Child Health
51.2210	712	International Public Health/International Health
51.2301	802	Art Therapy (exclude master's)
51.2306	722	Occupational Therapy/Therapist (exclude master's and OTD)
51.2308	722	Physical Therapy/Therapist (exclude master's and DPT)
51.2312	722	Assistive/Augmentative Technology and Rehabilitation Engineering
51.2501	721	Veterinary Biomedicine and Clinical Sciences (exclude DVM)
51.2502	721	Veterinary Anatomy (exclude DVM)
51.2503	721	Veterinary Physiology (exclude DVM)
51.2504	721	Veterinary Microbiology and Immunobiology (exclude DVM)
51.2505	721	Veterinary Pathology and Pathobiology (exclude DVM)
51.2506	721	Veterinary Toxicology and Pharmacology (exclude DVM)
51.2507	721	Large Animal/Food Animal & Equine Surgery/Medicine (exclude DVM)
51.2508	721	Small/Companion Animal Surgery and Medicine (exclude DVM)
51.2509	721	Comparative and Laboratory Animal Medicine (exclude DVM)
51.2510	721	Veterinary Preventive Med Epidemiology/Public Hlth (exclude DVM)
51.2511	721	Veterinary Infectious Diseases (exclude DVM)
51.2599	721	Veterinary Biomedical and Clinical Sciences, Other (exclude DVM)
51.2703	617	Medical Illustration
51.2706	604	Medical Informatics
51.3201	617	Bioethics/Medical Ethics
51.9999	722	Health Professions and Related Clinical Sciences, Other (exclude master's)
52.0601	903	Business/Managerial Economics
52.1003	910	Organizational Behavior Studies
52.1004	910	Labor Studies
52.1201	401	Management Information Systems, General (exclude DCS)

2010 GSS CROSSWALK—Continued

2000 CIP Code	GSS Code	Description of CIP Field
52.1301	401	Management Science, General (exclude DCS)
52.1302	403	Business Statistics
52.1304	403	Actuarial Science
54.0104	905	History and Philosophy of Science/Technology (combined program)

Suggested Citation, Acknowledgements

National Science Foundation, National Center for Science and Engineering Statistics. 2013. *Graduate Students and Postdoctorates in Science and Engineering: Fall 2010.* Detailed Statistical Tables NSF 13-314. Arlington, VA. Available at http://www.nsf.gov/statistics/nsf13314/.

The 2010 Survey of Graduate Students and Postdoctorates in Science and Engineering was conducted with funds from the National Science Foundation (NSF) and the National Institutes of Health. RTI International conducted the survey, under NSF contract number SRS-0629305.

RTI prepared the tables. RTI staff members who made significant contributions include Laura Burns and Peter Einaudi. Kelly H. Kang of the Human Resources Statistics Program, National Center for Science and Engineering Statistics (NCSES), NSF, managed the production of this report and oversaw the report through the NCSES review process.

National Center for Science and Engineering Statistics (NCSES)
The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA
Tel: (703) 292-8780, FIRS: (800) 877-8339 | TDD: (800) 281-8749